





ELEPHONE NUMBER: 617 CENTRAL (3 lines).

Established in ElGLAND. 1859.]

Registered as a Newspaper.

Published Weekly at 42 CANNON STREET,

LONDON, E.C.

TELEGRAPHIC ADDRESS:
"CHEMICUS, CANNON, LONDON,"
[Charged as two words only.]

Established in [AUSTRALASIA, 1885]

N 1,881. Vol. LXXXVIII

FEBRUARY 12, 1916.

Subscription Rate 12s 61 per annum.'
Single Copies, 6d each. Winter and Summer
Issues, 1s. each. Post Free



The Best House for OPIUM and its preparations

PHARMACEUTICAL PRODUCTS
"SILVER CHURN" Dairy Specialities

OLDFIELD, PATTINSON & CO., MANCHESTER

EXTRACT OF MALT

AND

EXTRACT OF MALT WITH COD LIVER OIL

PREPARED IN ACCORDANCE WITH THE B.P.C. STANDARD.

AN UNSOLICITED TESTIMONIAL.

April '15

"WE wish to take this opportunity of stating that our last season's sale of Malt and Malt and Oil has been extremely satisfactory and unique in one respect—that we have gone through the whole season without one single complaint as regards the quality or the put-up of the article. This we consider eminently satisfactory, and we shall have no hesitation in renewing our next year's contract with you."

PRICES ON REQUEST.

ALLEN & HANBURYS LTD., LONDON

Index and Buyers' Guide, pp. 5, 6 and 7.

MODERN PHARMACEUTICAL **PRODUCTS**

SACCHARIN

Highest possible strength 550 times sweeter than cane sugar. 500 Soluble. 450 Crystals. 330 & 300. All strengths supplied duty paid or in bond for export.

VALIN

The substitute for Morphia.

Specially recommended in Painful Dressings, Inoperable Cancer, Gall Stone, Sciatica, Neuralgia, Etc. In Ampuls for Hypodermic Injection, and in coated Tablets for internal administration.

OCAIN

The non-irritant Local Anæsthetic, contains no Cocaine. (Awarded Gold Medal XVIIth International Congress of Medicine, 1913.)

Owing to the large requirements for the Army and Navy, Novocain can at present be obtained only through the Government Departments, the whole output having been placed at the disposal of

H.M. GOVERNMENT.

PREPARATIONS

Fortossan **Ferrophytin**

Digifolin Peristaltin Euclottin

Lipoiodine Vioform

Menthescin Yohimbine

Prices and Literature on application.

<u>്പ്രത്യ പ്രത്യാപ്പെട്ടില് പ്രത്യാപ്പിട്ടുന്നു. പ്രത്യാപ്പിട്ടുന്നു പ്രത്യാപ്പിട്ടുന്നു. പ്രത്യാപ്പിട് പ്രത്യാപ്പിട്ടുന്നു. പ്രത്യവ് പ്രത്യവ് പ്രത്യവ് പ്രത്യവ് പ്രത്യവ് പ്രത്യവ് പ്രത്യവ് പ്രവ്യവ് പ്രത്യവ് പ്രത്യവ് പ്രത്യവ് പ്രത്യവ് പ്രത്യവ് പ്രത്യവ് പ്രവ്യവ് പ്</u>

Saccharin Corporation, Ltd.,

36 & 37, QUEEN STREET, CHEAPSIDE, LONDON, E.C.



Why not make Your own Perfumery?

66 DULCIFLOR 99

(TRADE MARK)

PERFUMERY OTTOS

yield an exquisite quality at a cost of 4/4 per pint of finished perfume.

In any case it will cost nothing to examine the samples which we shall be pleased to forward on hearing that you are interested.



STEVENSON & HOWELL, LTD.,

Standard Works, Southwark Street, S.E.

Telephone: Hop 4833 (3 lines). Telegraphic Address: "Distiller, Boroh London."

Δ

FEBRUARY 12, 16



Capture German Trade.

ARE YOU SEIZING YOUR OPPORTUNITIES? HERE IS ONE.



"FORMITROL" FORMALIN PASTILLES AFFORD TO THE TRADE THE BEST OPPORTUNITY OF SELLING A DESIRABLE, WELL-KNOWN, AND BRANDED FORMALDEHYDE PRODUCT. TO TAKE THE PLACE OF THE GERMAN ARTICLE.

THEY ARE PRESCRIBED EXTENSIVELY BY THE MEDICAL PROFESSION.

OUR SILENT SALESMEN BOXES DO THE REST. SEE ILLUSTRATION.

SEND US YOUR ORDER FOR 3 DOZEN "FORMITROL" FORMALIN PASTILLES. WE WILL SEND YOU 1 DOZEN FREE FOR YOUR SELLING CO-OPERATION AND DISPLAY ROOM ON YOUR COUNTER OR IN YOUR WINDOW.

IF YOU MAKE UP YOUR ORDER TO £3 (INVOICE VALUE) WITH ANY OF OUR PRODUCTS, WE PAY CARRIAGE, OR TO £5 WHEN 5% FOR CASH IS ALLOWED.

ON REPEAT ORDERS OF 3 DOZEN MINIMUM A BONUS OF 4 EXTRA TINS IS SENT WITH EACH DOZEN FOR YOUR DISPLAY.

Trade Price, 8/6 dozen. Retail, 1/- P.A.T.A.

ON BEST TERMS YOU MAKE

97°/o PROFIT on outlay.

A. Wander Ltd., 45, Cowcross Street, London, E. Works: KING'S LANGLEY, HERTFORDSHIRE.

PHARMACEUTICAL PHARMACEUTICAL PHOTOGRAPHIC PRODI PHOTOGRAPHIC PRODI R.W. Greeff & Co.

offer at lowest prices the following products manufactured in the United Kingdom, Allied and Neutral Countries.

(WHOLESALE QUANTITIES ONLY)

Barbitone Bromide of Ammonium Bromide of Potassium Bromide of Sodium Chloral Hydrate Cinchonine Sulphate and Muriate Cinchonidine Sulphate Citric Acid Cocain Hydrochlor and Puriss Cream of Tartar Creosote Carbonate Eucalyptus Oil Formaldehyde Gallic Acid Glycerophosphates Guaiacol Carbonate Heliotropin Hexamine Homatropine Hydroquinone

Isarol (best Ichthyol substitute) Lithia Carbonate Lithol (lchthyol sub.) Mercurials Methyl Salicylate Peppermint Oil Pepsine Phenacetin Phenazone Pyrogallic Acid Potassium Sulpho-Guaiacolate Quinine Ouinine Ethyl Carbonate Salicylate of Soda Sugar of Milk Tannic Acid Tannin Albuminate Terpineol Theobromine Vanillin



Munimum ?

OUR NEW PLANT

EXTRACTS FROM LETTERS FROM THE FRONT:

"France is strewn with Ayrton's empty

"Your parcel was awaiting me. . . . I had the best cup of leaving tea since England."

"The Coffee is grand, it smells and tastes good."

" The Cocoa Tablets are very good, when you can't get hot water you can eat them!"

is now turning out sufficient tablets to enable us to cope promptly with all orders.

Ayrton's Tea, and

Milk Tablets.

One tablet makes a complete cup of Tea.

6 tablets in box, P.A.T.A., 7d. 66/- gross Wholesale

Ayrton's Cocoa, Sugar and

Milk Tablets.

One tablet makes a complete cup of Cocoa.

6 tablets in box, P.A.T.A., 7d. Wholesale 66/- gross

Ayrton's Coffee, Sugar

Milk Tablets. One tablet makes a complete cup of Coffee.

6 tablets in box, P.A.T.A., 10¹/₂d. 96/- gross. Wholesale

TOPICAL SHOWMATTER FREE WITH ALL ORDERS. One gross carriage paid in Great Britain and Ireland.

AYRTON, SAUNDERS & CO.

LIMITED.

LIVERPOOL Wholesale Druggists

INDEX TO ADVERTISEMENTS IN THIS ISSUE.

Coper Son & Co. Ltd. Xiz College Son & Co. Ltd. Xiz College Son & Co. Ltd. Xiz Crawshaw E. & Co. Xiz Cra	114	DEA IO	ADVER	1 12 FIMILIA 12	114 11113 133	
	Pag	6	Page	Page	Page	Pake
Indicate Indicate	larsndrs. licot's M stactoring Co. xvii licot's M stactoring Co. xviii licot's M stactoring Co. xviii licot's M stactoring Co. xviii licot's M stactoring C	Cooper. Sor & Co Lt. Crampton & Co., Ltd. Crawshaw, E., & Co., Crosse & Blackwell, Cupal, Ltd. Uuxson, Gerrard & O Dale, John, Manufact Davidson, J., & Co., Davis, J. & Co., Decoration of the Cooper of the Cooper, Decoration of the Cooper, Decoration of the Cooper, Decoration of the Cooper, Douncan, Flockhart & Ellison, H., Ltd. Erams Co., Ltd. The., Exchange Column Frahra Co., Ltd. The., Frairchild Bros. & Fo. Farris, Chas. Fellows' Medical Mr Fentiman, A. G., Ferris & Co., Ltd. Fiuk, F., & Co., France Food	d.	berg. I. L. X letz Bros. & Co. Vii st. J. Viii st. J. Viii Viii Viii Viii ff. R. & Co. Col. Supp. ff. R. & Sons. Ltd. 28 lett. B. Col. Supp. lett. B. Viii lett. B. Viii	Maofarlan, J. F., & Co	Rooke, Dr. C. Ltd. 27 Roques, F. x kosmarine Manig, Co. 18 Rubeck, H. Text 225 Roylance Bental Co. xviii Rudd, F. M. 27 Saccharine Oropration, Ltd. Cover Saccharine Corporation, Ltd. 40 Sinitely Bros., Ltd. 25 Sim, Ltd. 45 Sim, Ltd. 47 Solpert Bros. 47 Solper

BIYERS **GUIDE FOR GOODS ADVERTISED IN THE** C. & D.

ibselut Alcohol

Acci ilide rgoyne, Bu dgss & Co. lonite Co., syins & Co.
Acciyi licylic

Adversing Acraiec Water Maclacry nett & Foe

eraied Vaters

teraied Vaier
Matchals
nett a for
te Roberte Co., Ltd.
a, W. J., & , Ltd.
william, i.
canon a H sil, Ltd.

Ager les sking, Char don, Idd, lans Ltd. lotter, San I G., & Co.

Air Cu ions ge, warren kidgisy, i.d.
Alka ids roughs Wel

tegis Bros.

ards & Son Ltd.

farian, J. F; Co.

acs. Ferdin

th T. & H., d.

flen & Sons A. Almos O11 s, Stafford, Jons, Ltd.

Alami am Ariica her & Hase; Ltd. Bros., Ltd. sta, Ld.

ibulanc Outats oughe Wal me & Co. Forster & Ltd. Amer in

hemica, &c. sing, Chas. nekrodt Clp. Works otter, Samu G., & Co. Amor an

Proprie ries iem Drug ply Co.

y, Lewis, &). ner, Mona Uo., Ltd. mpoul Files Ampoes

Ampo es lion, M., & Julee, & S. S., Son & S., G., & Co. hather, So & Co., Ltd.

'Ansesthoties
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
kaofarlan, J. F., & Co.
Smith, T. & H., Ltd.

Aniline Dyes Crawshaw, E., & Co. Lane-Hall, R., & Co.

Annatte
Fullwood, R. J., & Bland
Tomlinson & Hayward, Ltd.

Artificial Limbs Ferris, J. & E. Haywood, J. H., Ltd. Maw, S., Son & Sons

Aspirin
Willesden Chemical Works

Assayers Johnson, Matthey & Co., Ltd

Asthma Remedies Hair, B. W., & Son Lotthouse & Saltmer, Ltd. Potter & Clarke, Ltd.

Atomizers
DeVilbiss Mnfg. Co.

Atropine Roques, Ferdinand

Bacterial Vaccines Burroughs Wellcome & Co. Ohristy, Thos., & Co. Duncan, Flockhart & Co. Evans Sons Lescher & Webb Martindale, Wm. Parke, Davis & Co.

Baking Specialities British Wheat Salts Co.

Balsams Dodge & Olcott Co.

Bandage-Making Machinery Thomson-Knox Co.

Barium Salts Nicholson, J., & Sons, Ltd.

Barometers Darton, F., & Co.

Barrels
Venesta, Ltd.
Bath Cabinets
Rlley Bros., Ltd.

Bowdlear, Wm. H. Farris, Charles

Bichromates
White, John & James
BiologicalProducts
Christy, Thos., & Co.

Bismuth Preparations es & Co., Ltd.

Bismath Salts
Alliance Drng & Chem. Oc.
Burgone, Burhidges & Cc.
Howards & Sons. Ltd.
Lane-Hall, E., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, Alfred, & Sons

Body Belts
Berton, Arthur. Ltd.
Maw, S., Son & Sons
Schutze, F., & Co., Ltd.
Wood, Vincent

Books, As.

"British Journal" Photographic Almanac
(Christy's 'Monthly'
Mack-Ivor
Martindase's "Extra Pharm"
Potter's "Oyelopedia"
Southall Bros. & Barclay, Ltd.
Squire's "Lompanion"

Squire's "Companion

Botanic Druggista

Brook, Parker & Co. Ltd.

Newhall & Mason

Potter & Olarie, Ltd.

Bottles, Jars, & e.,

Class

Barnett & Foster

Ferry, T., & Son, Ltd.

Isaacs, I., & Co.

Lang, Jules, & Son

Maw, S., Son & Sons

Melin, O., & Co. | Orrocts, Ltd.

Swales, T.

Thompson, J. L., & Co. Thompson, J. L., & Co. Youldon, E., Ltd.

Fonldon, E., Ltd.

Bougies

Bresillon, M., & Co.

Bouges

Ayrton, Saunders & Co., Ltd.
Davidson, J., & Co.
Estes, E. B., & Sons, Ltd.
Ford, Shapland & Co.
Globe Box Co.
Robinson & Sons, Ltd.
Stevenson, Hugh, & Sons, Ltd.
Stevenson, Hugh, & Sons, Ltd.
Stevenson, Hugh, & Sons, Ltd.
Venesta, Ltd.

Waue, T., & Sons

Bromides

Dub, A.

Bromides
Dub, A.
Golodetz Bros., & Co.
Greeff, R. W. & Co.,
Whiten & Sons, Lta.

Brushes
Art & Medical Brush Mfg.Co.
Hawell Ridwell & Go., Ltd.
Galen Mnig. Co., Ltd.
Hovenden, E., & Sons, Ltd.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
Titterton & Howard
Rusilding Sites

Building Sites eat Western Railway Butter Colouring Fullwood, B. J., & Bland Oldfield, Pattinson & Co.

Cachets Clark, C. S. Cooper, Son & Co., Ltd. Cachous Crosse & Blackwell, Ltd.

Cacodylato... Calf Lymph Heinemann, W.

Camel Hair Brushes Art & Medical Brush Mfg.Co.

Cameras Butcher, W., & Sons, Ltd.

Butcher, W., & Sons, Ltd.

Camphor
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.

May & Baker, Ltd.

Cantharidin
Smith, T. & H., Ltd.

Caps for Bottles, & C.

Retts & Co., Ltd.

Gates, Lealle

Cates, Lealle Viscose Development Co., Ld. (Self-fixing and Airtight)

Capsuled Pills McKesson & Robbins

Capsules (various)
Denoual, Jules, & Oo.
Evans Sons Lescher & Wehh
Mawson & Co.
Robbins, John G.
Smith, Martin H., Oo.
Stevenson, H. E., & Oo.
Tye, John, & Son
Warrick Bros. Ltd.

Cartons Glohe Box Co. Robinson & Sons, Ltd. Suttley & Silverlock, Ltd.

Catarrh Remedies Menley & James, Ltd.

Catheters Manson, R. Mason Bros: & Chapman Porgés Warne, Wm., & Co.· Ltd.

Caustic Soda Brunner, Mond & Co., Ltd.

Cellulose Acetate Cellonite Co., Dreyfus & Co. Cements

Kay Bros., Ltd. Mendit. Ltd.

Chalk, Precipitated Levermore, A., & Co., Ltd. Mumford, G. S., & Sons Nichols Chemical Co., Ltd. Sturge, John & E., Ltd. Charts

Wodderspoon & C

Chemical Plant
Blair, Camphell & McLean, Ld
Forshaw, E., & Son, Ltd
Scott, Geo., & Son (London),
Ltd.

Forshaw E., & Son, Ltd Scott, Gec., & Son tLondon), Ltd.

Chemicals

Baiss Bros. & Stevenson, Ltd.

Becker, Shilian & Co.

Boake Boberts & Co., Ltd.

Bonaventura, F., & Co.

Branwell, E., & Son, Ltd.

British DrugHouses Ltd., The Brunner, Mond & Co., Ltd.

Burroughs Wellcome & Co.

Carnegie Bros.

Corbyn Stacey & Co., Ltd.

Orampton, J., & Co., Ltd.

Orampton, J., & Co., Ltd.

Orampton, J., & Co., Ltd.

Crampton, J., & Co., Ltd.

Golodct Bros. & Co.

Green R. & Williams. Ltd.

Howards & Sons, Ltd.

Keene Company

I ane-Hall, K., & Co.

Madoery, H.

Mallnokrodt Ohem. Works

Martindale, W.

May & Baker, Ltd.

Morrison, R., & Co.

Picerio, V. A.

Reitmeyer, Calburn &

Kindersley, Ltd.

Sacchart Corporation, Ltd.

Scheller, Emil, & Co., A. G.

Schingersley, Ltd.

Scheller, Emil, & Co., A. G.

Schingersley, Ltd.

Scheller, Emil, & Co., Ld.

Tyrer, T., & Co., Ltd.

Washingtou Chemical Co., Ld.

Walls, A., & Sons

Zimmermann, C., & Co.

(Chemicale), Ltd.

Chloralamide

Burgoyne, Burbidges & Co. Chloride of Lime Brunner, Mond & Co., Ltd. Chlorodyne Davenport, J. T., Ltd.

Davenport, J.T., Ltd.

Oblior of or m

Burroughs Wellcome & Ce.
Duncan, Flockhart & Co.
May & Baker, J. F., & Co.
May & Baker, Ltd.
Southall Bros. & Barclay, Ld.
Cigars & Oigarettes
Singleton & Cole, Ltd.

Citric Acid and Citrates BritishDrug Houses, Ltd., The Burgoyne, Burbldges & Oo. Howards & Sons, Ltd. Pelliot, Henri, & Oie Sturge, John & E., Ltd. Clinical

Clinical
Thermometers
Burge, Warren & Bidgley, Ld.
Bush, H. W., & Co., Ltd.
Maw, S., Son & Sons
Ferken, Son & So., Ltd.
Pluischer, J.
Powell, J. T., & Co.
Zeal, G. H.

Coal Tar Specialities Wright, Layman&Umney,Ld

Wright, Layman&Umney,La Cocoa Cadhury Bros., Ltd. Cod Yiver Oil Allen & Hanburys, Ltd., The British Drug House,Ltd., The Southall Bros. & Barclay, Ltd Wright, Layman & Umney,Ld

Collapsible Tubes
Betts & Co., Ltd.
Brooks, Peel & Co., Ltd.
Venesta, Ltd.

Combs Hovenden, R., & Sons, Ltd. Condensors Bennett, Sons & Shears, Ltd

Confectionery,
Medicated
Guest, Thos., & Co.
Pascall, James, Ltd.

Continental Props.
American Drug Supply Co.
Bresilion, M., & Co.
Boberts & Co.
Wilcox, Jozean & Co.

Cookers
Blackie, Robt.
Tommy's Cooker Co., Ltd.

Corks
Ardwick Cork Depot
Mitchell, N. W., & Sons, Ltd. Corn Plasters, &c. Solport Bros.

Counter Adjumets
EvansSons Lescher & Webb, L4 Counter

Counter
Specialities
Allen & Hanburys, Ltd.
British Drug Houses, Ld., The
Burgoyne, Burbidges & Co.
Hewlett, C. J., & Sons, Ltd.
Southall Bros. & Barelay, Ltd.
Wright, Layman & Umney, Ld.

Filling Blackine Forgrove Machinery Co.,Lta

Court Plaster Solport Bros.

Gream of Tartar Becker, Shillan & Co. Pelliot, Henri, & Cie

Crossote
Baiss Bros. & Stevenson Ltd
Orope Bandagos
Burge, Warren & Bidgley, L64
Glmber, W., & Son
Norwioh Crope Co. (1856), Ltd.
Wood, Vincent

Oyanides
May & Baker, Ltd.

Dairy Specialities
Fullwood, R. J., & Bland
Oldnied, Pattinson & Oo.
Tomlinson & Hayward, Ltd.

Deafness Preventive

Mallock-Armstrong Ear Defender Co. Dental Mochanies

Fentiman, A. G. Halder, B. C. Wardale & Co. Dontifries

Dentifrices
Bescham, T.
Sell (John), Hills & Lucas, Ld.
Blackio, Bohert
Uaristy, T., & Co.,
Uox, J., & Co., Ltd.
Uox, Arthur H., & Co., Ltd.
Eckesson & Robhins
Maw, S., Son & Sons
Parke, Davis & Co.
sangers fangers Standard Tablet & Pill Co., Ld. Woolley, J., Sons & Co., Ltd.

Developers (Photo.) Evans Sons Lescher & Webb Express Developing Co.

Destrin Fink, F., & Co.

Digostive Products
Armour & Co., Ltd.
Digestive Ferments Co.
Fairchitd Bros. & Foster
Parke, Davis & Co.
Steams, Fredk., & Co.
Disinfectants
Blas Free & Steams, Ltd.

Bisinfectamts
Balss Bros. & Stevenson, Ltd
Burgorne, Burbidges & Oo.
Butt, Boulton & Haywood, Ld
Under Burbidges & Oo.
Butt, Boulton & Haywood, Ld
Under Burbidges & Oo.
Ld
Warker, Stage & Morgan, Ltd.
Hough, Hoesson & Co.
Jefes Sanitary Compfs. Ltd.
Worls, Little & Son, Ltd.
Banitas Go., Ltd.
Sanitas Go., Ltd.
Townson H F. & Go.
Townley Ming. Co.
willows, Francis, B. & T., Ltd.
Wright, Laymana Umney, Ld.

Drop Bottles Lang, Jules, & Son Druggists'Sundries Ayrten, Saunders & Co., Ltd., pales Bros. & Stevenson, Ltd., Bercon, Arthur, Ltd., Barge, Warren & Ridgley, Ld., Burgoyne, Burbidges & Co.

Bnsh. H. W., & Co., Ltd. Bush, H. W., & Co., Ltd.
EvansSons-Leecher& webb, Ld
Hovenden, R., & Sons, Ltd.
Longeroft, H. M.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Rener, E., J.
Sangers
B.Muxte, F., & Co., Ltd.
B.port Bros.
& Bathall Bros. & Barolay, Ltd
Ewales, Thomas

Swales, Thomas
Toogood, W., Ltd.
Woolley, J., Sons & Co., Ltd.

Dage & Clott Co
Gatager od's Exor.
Godali, Sackhone & Co.
Lambert, Sanl., & Co.
McKesson & Sobbins
Morrison, B., & Co. welch & Horner JAFA 0, Ltd.

Man de Cologne
Bronnley, H., & Co., Ltd.
Bush W. J., & Co., Ltd.
Okristy, Thos., & Co.
Brasmic Co., Ltd.
Loscol Perfumery Co.
Maw, S., Son & Sons
ay, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Sangers' Sangers' Schutze, F., & Co., Ltd. Vinolla Co., Ltd.

Ban de Cologne (solid Demuth's Laboratories Educational

Adacational
Institutions
Ratha Westof England College
Birmingham & Midland College
Birtlish Optical Institute
College of Preceptors
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
South of England College
Westminster College
Blastic Gnm Insts.

Mlastic Gum Insts. Mason Bros, & Chapman

Blastic Hosiery minstle Hostery
Ayrton, Saunders & Co., Ltd.
Bailey, W. H., & Son
Eurge, Warron & Ridgley, Ld.
Baywood, J. H., Ltd.
Eaw, S., Son & Sens
Wood, Vincent
Miccurical

Wovelties

Millard Bros., Ltd. Ward & Goldstone Wright, Arohd. J., Ltd.

Emery and Cloth Oaksy, J., & Sons, Ltd.

Garnegie Bros.
Maefarlan, J. F., & Co.
Whiffen & Sons, Ltd

Amaisifiers

Bennett, Sons & Shears, Ltd. Vikinsen, S. W., & Co. Emulsions, O.L.O., A.C.

Balas Bros. & Stevenson, Ltd.
Blackie, Bobert
Browning, Wm., & Co.
Gupal, Ltd.
Faniding, F. H., & Co.
Parke, Davis & Co.
Betvenson, H. E., & Co.
Wyleys, Ltd.

Enamelled Hos-

pital Requisites me, Evans & Co.. Ltd. Indolytic Tubes Fletcher & Co. Lt

Enomas Burge, Warren & Ridgley, Ltd. Ingram, J. G., & Son Maw, S., Son & Sons Warne, W., & Co., Ltd

Epson Salts
Blythe, Wm., & Co., Ltd.
Howards & Sons, Ltd.
Wav & Baker, Ltd.
Mumford, G S., & Sons Essences.

Essences,
sol. and Fruit
Alliance Drug & Chem.
Barnett & Foster
Baske Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Bay, Wm., Ltd.
London Essence Co.
Polak & Schwarz
Retwenson & Howell, Ltd
Whittaker, Arthur

Ethers Baiss Bros. & Stevenson, Ltd.
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macdarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

Eucalyptus Oil British Drug Houses, Ltd., The Stevenson, H. E., & Co. Tasmanian Eucalyptus Oil Co.

Evaporators Porshaw, E., & Son, Ltd.
Extract of Herbs
Newbail & Mason
Potter & Clarke, Ltd. Extracts

(Notates)

(Notates)

Allen, Stafford, & Sons, Ltd.
Allen, Stafford, & Sons, Ltd.
EvansSons Leschera Wobb, Ld.
Gathergood's Eror.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Bansom, W. & Son, Ltd.

Feeding Bottles Bush, H. W., & Co., Ltd. Maw, S., Son & Sons Schutze, F., & Co., Ltd.

Filling Machines Forgrove Machinery Co., Ltd Roberts' Pat. Filling Mach Co

Filters
British Paeteur-Chamberland
Filter Co.

Flycatchers
Kay Bros., Ltd.
Smith, Jno. H., & Co.

Smith, Jno. H., & Co.

Poods, Invalid, & C.
Allen & Hanburys, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
British Mik Products Co.
Fairchild Bros. & Foster
Frame Food Co.
Harker Stage & Morgan, Ltd
Horlick's Malted Food Co.
Lorimer, John
Lotthouse & Saltmer, Ltd.
Natural Food Co., Ltd.
Sister Lauras Infant Food Co.
Southall Bros. & Barolay, Ltd
Wander, A., Ltd.
White, A. J., Ltd.
Wooley, Jas., Sons & Co., Ltd.

Poot Appliances choll Mnfg. Co., Ltd. Fruit Drink

McGlachan, D Fuller's Earth Mnmford, G. S., & Sons

Fumigators Sanitas Co., Ltd.

Gallie Acid Mallinekrodt Chem. We

Bailey, R., a Son Carnegie Bros. Taylor, W. G.

Gelatines Crampton, J., & Co., Ltd.

Glassware,

Chemical
De Roubaix & Caseiers
Lang, Jules, & Son
Melin C., & Co.
Thompson, J. L., & Co.
Toogo Jd, Wm., Ltd. divcerin

Fueret Bros. Prios ratent Candle Co., Ltd. Glycerophosphates Monsanto Chemical Works Monsanto Chemical

Gold Beaters' Skin

Gates, Lesne
Gold Chloride
Johnson, Matthey & Co.

FORSO FRINTS
Hovenden, R. & Sons Ltd.
Quelek, Henry C., & Co.

Grinders, Drug, &c.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T., Ltd.

Gripe Water Woodward, W., Ltd. Gums

Fink, F., & Co. Kldaton, W. M., & Co. Lambert, Saml., & Co.

Hair Dyes
Blackle, Robert
Harker O.R., Stagg & Morgan
Kuox Walker, J., & Co.

Hair Preparations Alexandre, L.
Anzora Perfumery Co.
Blackie, Robert
Edwards' "Harlene" Co.
Franklin Co.
Kolene to.
Ni-Verre Chemical Co.
Sancers

Hand Carts, Trucks, &c.

Crewe & Co. Hat Cleaners Cox, Arthur H., & Co., Ltd. Mllner's Chemical Co.

Hat Dyes Whitaker & Co.

Herbs Brook, Parker & Co., Ltd. Potter & Clarke, Ltd.

Homoeopathie
Medicines
Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.

Horse Remedies Harvey & Co. (Dublin), Ltd.

Hot Water Bottles
Balley, W. H., & Son
Berton, Arthur, Ltd.
Burge, Warren & Bidgley, Ltd.
Galen Manfg. Co., Ltd.
Maw, S., Son & Sons
Toogood, William, Ltd.
Warre, Wm., & Co., Ltd.
Wood, Vincent

Hot Water Bottle Covers Curson, Gerrard & Co., Ltd.

Hotels

Kingsley Hotel Thackeray Hotel Hydrogen Peroxide Laporte, B., Ltd.

Hypodermic Turner, W., & Co., Ltd.

Hy popuosphites
May & Baker, Ltd
Tyrer, T., & Co., Ltd.

Ink, Dichrois

Insecticides
Christy, T., & Co.
Cook, E., & Co., Ltd.
Insect Powder
Potter & Clarke, Ltd.
Raimes & Co.

Tyrer, T., & Co., Ltd. Whiffen & Sons, Ltd.

Lactic Acid
Heyman, H.

Lanolines
Bonaventura, F., & Co.
Corhyn, Stacey & Co., Ltd.
Hillerest Cil Co., Ltd.
Howard Lloyd & Co., Ltd.

Lavender Oil
Allen, Stafford, & Sons, Ltd.
Guillevic, E., & Co.
Ransom, W., & Son, Ltd.
Lavender Water
Bush, W. J., & Co., Ltd.
Sangers

Bush, W. J., & Co Sangers Vinolia Co., Ltd.

Lime Juice and Cordial
EvansSons Lescher & Webh, Ld
Idris & Co., Ltd.

Linseed, Crushed Mumford, G. S., & Sons

Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.
Taylor, W. G.
Vernon & Co., Ltd.

Liquorice Juice ochm, P., Ltd. oehm, F., Ltd. uerst Bros. ackson Ernest, & Co. lumford, G. S., & Sons

Liquors, Conc.

Lithia Salts
British Drug Houses, Ld., The
Howards & Sons, Ltd.
MacGarlan, J. F., & Co.
May & Baker, Ltd.

Loofah Socks Davis, J. M., & Sone

Hall Forster & Co., Ltd Internl. Sponge Importers, Ld Solport Bros., Ltd.

Solport Bros., Ltd.

Sozenges
Cox. Arthur H., & Co., Ltd.
Crosse & Blackwell
Denousl, bules, & Co.
Gasts. Ernest. & Co.
Patter Davie & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Warriok Bros., Ltd.
Warriok Bros., Ltd.

Burt, Boulton & Haywood, Ld Eucryl Ltd. Evans Sons Lescher & Webb, Ld Lysol, Ltd.

Lysol, Ltd.

Machinery,
Pharmacal

Blair, Campbell & Melean, Ltd.

Blair, Campbell & Melean, Ltd.

Grigtore Meehinery Co., Ltd.

Gridtor, Win., & Sons, Ltd.

Gridtor, Win., & Sons, Ltd.

Findar, J. W., & Co.

Stokes, F. J., Machine Co.

Thompson & Capper, Ltd.

Wilkinson, S. W., & Co.

Magnesia and

Props.
Henry, T. & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Ohem. Co.
Washington Chemical Co., Ld.
Malt Extract and

Preps.
Allen & Hanburys. f.td.
Blackle, Robert
British Drug Houses, Ed., The
Burroughs Wellcome & Co.
Calder's Yeast Co., Ltd.

Corbyn, Stacey & Oo., Ltd.
Davice, Sons & Co.
EvansSons Leecher & Webh, Ld
Fletcher, Fletcher & Co., Ltd.
May, Roberts & Oo., Ltd.
Oppenbeimer, Son & Co., Ltd.
Pain: & Co., Ltd.
Pain: & Co., Ltd.
Tolkein, C., & Oo.
Wander, A., Ltd.
Wyleys, Ltd.

Barking Fab

Marking Ink John Bond ('Crystal Palace' Measures, Graduated Bush, H. W., & Co., Ltd. Meat Extracts

Armour & Co., Ltd. Brand & Co., Ltd. Mercurials

Harrian & Co. Ltd.

Tyrer, T., & Co., Ltd. Methylated Spirit

Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son Ltd. [Co.,Ld.

Randall & Ser. Ltd. [Oo.,Ld. Riddell & Smith There ey, Sa uuel, Ltd. Min oral Waters Canwas, Ltd. Cheltenham Mineral Water Idris & Oo., Ltd. Ingram & Royle, Ltd. Perrier, Ltd. Vichy-O-lestine

Mixers and Sifters Gardner. Wm. & Sons (Glos.) Ld Stokee, F. J., Machine Co. Maphthalene Burt, Boulton & Haywood, Ld.

Nebulizers Reuter, R. J.

Night Lights Price's Patent Candle Co.,Ld

Price's Patent Candle Co., Ld.
Oils. Essential
Allon, Stafford, & Sons, Ltd.
Allon, Stafford, & Sons, Ltd.
Oils. Colombial Co.
Evanson Electric & Co., Ltd.
Dodge & Clott Co.
EvansSons Leecher & Wehn, Ld
Guillevie, E., & Co.
Lame-Hall, B., & Ce.
London Essence Co.
Warnus, Waben-& Reynard Inc.
Morrieon, R., & Co.
Naof, M., & Co.
Naof, M., & Co. Morrieon, R., & Co. Nacf, M., & Co. Polak & Johwarz Ranson, W., & Sou, Ltd. Rubeck, H. Stevenson & Howell, Ltd. Welch & Horner Wiener, E. Co. Winner, E. Co. Zinmermann, C., & Co., Ltd. Zinmermann, C., & Co., Ltd.

Oils, Mineral,

Patty, &c.
Allon, Stafford, & Sons Ltd.
Boehm, F., Ltd.
Price's Patent Candie Co. Ld.
Stern Sonneborn Oll Ce., Ltd.

Ointments
Blackle Robert
Burgess, E.
Charleston & Oo.
Milne, P. H., Co.
Uddneld, Pattinson & Co.
Past Products (Sphagnol) Ltd. Sangers Olive Oil

Farris, Charles Fueret Bros. Guillevic, E., & Co.

Oplum Preparations Ferris & Co., Ltd. Oldfield, Pattinson & Co.

Optical Goods Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Optical
Co., Ltd.
Standard Optical Cn., Ltd.

Optical Tuition British Optical Institute College of Optics

College of Optics
Orange and
Quinine Wine
Idris & Co., Ltd.
Millar, A., & Co., Ltd.
Roblnson, B., & Co., Ltd.
Organic Solvents
Hopkin & Williams, Ltd.
Organo-Thera-

peutic Preps.
Armour & Co., Ltd.
BritishCrganotherapy Co., Ld
Digestive Ferments Co.
Duncan Wlockhart & Co.
Stearns, Fredk., & Co.

Utto Rose Guillevic. E., & Co. Zimmermann, C., & Co., Ltd. Zimmermann, C., & Co., Ltd.
Otto Ross (Synth.)
Bush, W. J., & Co., Ltd.
Guillevie, E., & Co.
Maw, S., Son & Sons
Folak & Schwarz
Stevenson & Hevell, Ltd
Stevenson H. E., & Co.
Warrick Bros., Ltn.
Warrick Bros., Ltn.
Wright, Layman & Unney, Ld.

Oxygen Gas in Cylinders) (in Lea & Son

Packed Goods Packed Goods
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
British Drug Houses, Ltd., The
Corbyn, Stacev & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Cox, Sans, & Co.
Cupal, Ltd.
Davies, Sons, & Co.
Sans Lesoher& Webh, Ld.
Goodall, Backhouse & Co.
Harker, C. E., Stagg & Morgan
Levers

Levers
Lofthouse & Saltmer, Ltd.
May, Roberts & Co., Ltd.
Oldfield, Pattinson & Co
Potter & Olarke, Ltd.

Sangers Shirley Bros., Ltd. Southall Bros. & Barclay, Ltd Standard Tablet & Pill Co., Ld. Toogood, W., Ltd.

Palatinoida Oppenheimer, Son & Co., Ltd.

Paper Handkerchiefs Poinoco Handkerchief Co., Ld.

Parafinum

Browning, Way, & Co Cheesebrough Marg. Co. Farris, Charles Produce Brokere Co. Ltd. Stern soneworn Cll Co. Ltd. Wiener, R. O., & Co.

Pastilles
Allen & Hanburys, Ltd.
Burroughs Wellcome & Co.
Demuth's Laboratories
Evans Sone, Leecher & Wobb
Guest, Thomas, & Co.
Kerfoot, Thomas, & Co.
Wander, A., Ltd.
Warrick Bros., Ltd.

Patent Agents Barker, R. W. Baworth, John E.

Peppermint 611
Allen, Stafford, & Sons Ltd.
Bneh, W. J., & Co., Ltd.
Dodge & Cloott Co.
Ransom, W., & Son, Ltd.
Rudd, F. M.
Stevenson & Howell, Ltd.

Pepsine
Digestive Ferments Co
Stearns, Fredk., & Co

Peptone
Armour & Co., Ltd.
Digestive Fermente Co.
Fairehild Bros. & Foster
Stearns, Fredk., & Co.

Perfame Materials Porfame Materials
Bush, W. J., & Co., Ltd.
Guillevic, E., & Co.
Kerfoot, T., & Co.
Karfoot, T., & Co.
Nacf, M., & Co., Sucers.
Polak & Schwarz
Stevenson & Howell, Ltd.
Wright, Layman & Unney, Ld.
Zimmermann, C., & Co. Ltd.

zimmermann, C., & Co. Ltd.

Perfumes
Alien & Hanburys, Ltd.
Balss Bros & Stevenson, Ltd.
British Drug Houses, Ld. The
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Gonriety, T., & Co., Ltd.
Contricty, T., & Co.
Demuth e Laboratories
Erasmic Co., Ltd.
EvaneSons Lescher-& Webb, Ld
Lescol Perfumery Co.
Potter & Clarke, Ltd.
Price's Co., Ltd.
Queloh, H. C., & Co.
Blayaud
Blayaud Gueton, H. C., & Co.
Spanning Spanning

Perles Tve John, & Son

Pessaries (Soluble) Burge, Warren & Ridgley, Ld. Rendell, W. J.

Petroleam Jelly Onesebrough Manfg. Oo. Kidston, W. M., & Oo. Meade-King, Robinson & Oo. Stern Sonneborn Oil Co., Ltd. Wlener, R. C., & Co.

Phenacetin Greeff, R. W., & Co.

Phenolphthalein Monsanto Chemical Works

Phosphorus and Preps. May & Baker, Ltd. Tyrer, T., & Co., Ltd.

Photo. Chemicals Greefi, R. W., & Co. Lane-Hall, R., & Co. Reltmeyer, Calburn & Klu-dersley, Ltd.

Ayrton, Sa iers aco, Ltd.
Burroughs ileoma a Co.
Burtoney W. Sone, Ltd.
EvansSonsi bares wab, Ltd.
LevansSonsi bares wab, Ltd.
Levans, Ltd.
May, Robert Co., Ltd.
Newbery, F. Sons, Ltd.
Rajar, Ltd.
Sangers Sangers Wyleys, Ltd

Photo. osteards Rajar, Ltd. Pill takers
Cor, A. H., 10., 144.
Davies, Son, Co.
Howard Lit, & Co., 144.
Kirby, H. & & Co., 144.
McKesson Hobbins
Standard Ti & Pill 0., 144.
Wand Man pluring Co.

Piters
Allcock Ma acturing 0s.
Daimas, A st., a co.
Galen Mani g. 0c. Ltd

Pl: num Johnson, 1 bey & Co., Lid

Polishe Various, Bradley & 1 rdas Oakey, J., & ns, 1td.

Powd Paper Papier Pour Ltd.

Piters
Cartwright tattray, Ltd.
Form Shapi (4 A A
Harrison, A & Sons
Suttley & Strices, act.
Townsond, A & Sons
Wilkinson, ass F.

Waide, T., 5 m.

Pro letary Al cleary Al action and an amount of the control of t

May Rober 100, Ith.
Nawbery, F. Sons, I.d.
Oppenheime in a 100, 11d.
Owbridge, V. J. Ltd.
Phillips, Ch. H., Ohem, On
Primer, J.
Reginol Ch. 2al Co. Recinol Ch. 33 to.
Sangers
Standard Ta. A Pill Co. Id.
Tunbridge & right
Wander, A. L.
Warrick Br. Ltd.
Willocx, Jo. 1 & Co.
Woodward, Ltd
Wright, Lay 1 & Umney Ld.

Sehntze, F., o., Ltd. Pyrogi le Asiq

Quill | Bark Quinine ind Salts Allianss Dr. Chem. Co. Bandosne C ine Factory Carnegie Br. Corbyn, Sta & Co., Ltd. Greeff, R. W Co. Howards & ,, Ltd

Radi ictive Harrington Rs am ands

Hovenden, I Sons, I.M. Kelland, W. Maw, S., Sor ons Rills Rei nts Hopkin & W ms, Ltd.

Brooks, Ton
Resins, Samulas
Allen, Staffo, Masfarlan, Jano, W. on, Ltd.
Smith. T. 21
Add.
Smith. T. 21
Add.

Rubbei itsmps Richford, 0.

sa harin faccharin poration, Ltd. Salicyl Acid and
Sa ylates
Bush, W. . Co.. Utd.
London Ohical Works, Ltd. Salv san, &c., Sa titutes Bresillon, & Co.

Sanit y Towels tethall B & Barolay, Ltd Sa onine

Si onin

Sand ressing lawker & wood, Ltd. omlinson layward, Ltd.

Ser as and len & Ha irys, I tâ.
arroughs i comez Co., Ld
bristy, T., Uo.
Tausopus i inură Webb, Ld
arra Dayi
Co.
fillatz, Joi a & Co.

S LTCS

She Dips art, Boulte Haywood Ld. orris, Little Son, Ltd. umhason & aywara, Ltd.

Shop ittings rton-dral, Ltd. ok, Georg ransons L ber & Webb, Ld. and, D. sepha, Phil & Sons, Ltd. sw. S., Sor Sons rankl & Sons Abdok & George rankles of the Sons Research of th

Should Straps

Silve Salts soa, Plant
rshaw, E., Son, Ltd.
ott, Geo., on (London),
ttd.

dgley, Cha Ltd. ioaps, 7 liet, &c.
ion & Hant ye, Ltd.
il (John), F. & Lucas, Ld.
onnley, H. Jo., Ltd.
osebrough on, Ltd.
osebrough on, Ltd.
risty, Thos

Walte

in fig

ess/ICI I

- Date

Cook, E., & Co., Ltd.
Erasmio Co., Ltd.
Enoryl, Ltd.
Enoryl, Ltd.
Ewen, James, & Sons
Franking, F. H., & Co.
Field, J. O. & J., Ltd.
Hovenden, B., & Sons, Ltd.
Lescol Perfumery Co.
Pears, A. & F., Ltd.
Peat Products (Sphagnol) Ltd.
Peat Products (Sphagnol) Ltd.
Resinol Chemical Co.
Vinolia Co., Ltd.
Wright, Layman & Umney, Ld

Sodium Bicarbonate
Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.

Sodium Hyposulphite Nicholson, J., & Sons, Ltd Soothers Sohntze, F., & Co., Ltd.

Spectacles
Darton, F., & Co.
Maw, S., Son & Sens
Nitsohe & Gunther Optical
Co., Ltd.

Spermaceti Farris, Charles Price's Patent Candle Co., Ld. Spices (Ground) Allen, Stafford, & Sons, Ltd. Goodall, Backhouse & Co.

Spirit of Wine Bnrrongh, J., Ltd. Calder, J., & Co., Ltd. Preston's Liverpool Distillery Co., Ltd.

Sponges Internl.SpongeImporters,Ld

Interni.spongeinpurces, and Sprays

Sprays

Burge, Warren& Ridgley, Ltd. Christy, Thos., & Co.

Hovenden, R., & Sons, Ltd. Maw, S., Son & Sons

Parke, Davis & Co.

Sangers

Toogood, Wm., Ltd.

Sprinkler Corks
Retta & Co., Ltd.
Brooks, Peel & Co., Ltd.

Stare h Mumford, G. S., & sons Stills
Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.

Stoppers Stipendum Stopper Co.

Sulphur Reitmeyer Calburn & Kin-dersley, Ltd.

Suppositories
PeatProducts (Spbagnol), Ltd.

Peatfroducts (Spbagnol), Ltd.

Surgical Appliance & Dressings
Allen & Hanburys, Ltd.
Bailey, R., & Son
Baiss Bros. & Stevenson, Ltd
Berton, Arthur, Ltd.
Burgoyne, Burbidges & Oo.
Burson, Burbidges & Oo.
Burson, Henry W., & Oo., Ltd.
Christy, Thos., & Oo.
Curson, Gerrard & Oo., Ltd.
Dalmas, A. de St., & Co.
Fassett & Johnson, Ltd.
Ginber, W., & Son
Haynes, G., & Oo.
Hospitals & GeneralContracts
Co., Ltd.
Co., Ltd.

Haylies, G., & General Contracts
Uo., Lt.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Maw, S., Son & Sons
May, Roberta & Co., Ltd.
Mulford, H. K., Co.
Robinson & Sons, Ltd.
Taylor, W. G.
Thermogene Co., Ltd.
Vernon, Will, & Sons
Warne, W., & Co., Ltd.
Wood, Vincent
Wooley, J., Sons & Co., Ltd.

Saspensories

Suspensories Bailey, W. H., & Sons

Synthetic Prods. Naef, M., & Co. Stevenson & Howell, Ltd

Syphons
Barnett & Foster
Camwal, Ltd.
Idris & Co., Ltd.

Idris & Co., Ltd.

Syringes

Bresilion, M., & Co.
Bush, H. W., & Co., Ltd.
Hough, Hoseason & Co.
Lang, Jules, & Co. Syrups, Medicinal

Anglo-American Pharmacentical Co., Etd.
Fellows' Med. Mnfg. Co.
Tablé Waters
Burrow, W. & J.

Burrow, w.a.J. Tablet Machinery Allen & Hanburys, Ltd. Bennett, Sons & Shears, Ltd. Griffin, John J., & Sons, Ltd. Thompson & Capper, Ltd. Wilkinson, S. W., & Co.

Wilkinson, S. W., & Co.

Tablets, Compressed
Allen & Hanburys, Ltd.
British Drug Houses, Ld., Th
Brook, Parker & Co., Ltd.
Burgoyne, Burbidges & Co.
Cox, A. H., & Co., Ltd.

Davies, Sons & Co.
Duncan, Flockhart & Co.
EvansSons Lescher & Webb, Ld
Guest, Thos., & Co.
Howards & Sons, Ltd.
Jackson, Ernest, & Co.
Kirhy, H. & T., & Co., Ltd.
Parke, Davis & Co.
Scheller, Emil, & Co.
Wisglesworth & Co.
Wigglesworth & Co.

"Tabloid" Products
BurroughsWelloome & Co.

Talc, Powdered Levermore, Aug., & Co.

Tartaric Acid

Tea Christy, Thos., & Co. Tea, & c., Tablets Ayrton, Saunders & Co., Ltd.

Terpeneless Oils
Naef, M., & Co.
Polak & Schwarz
Zimmermann, C., & Co., Ltd.

Theobremine Scheller, Emil, & Co. Smith, T. & H., Ltd. Societeit voor Chemische In-dustrie Katwijk

Thymol Rubeck, H. Verona Chemical Co.

Tinctures in Bond Allen, Stafford, & Sons, Ltd. Macfarlan, J. F., & Co. Ransom, W., & Son, Ltd.

Tinfoil
Venesta Ltd.

Tobacco Singleton & Cole, Ltd. Toilet Preparations

Anglo-American Pharm. Co. Ld Ouristy, T., & Co. Ouxson, Gerrard & Co. Dearborn. Ltd. Fulford, C. E., Ltd. Goodall, Backhouse & Co. Hall Forster & Co., Ltd. Knox. Walker, J., & Co., Ltd. Layers knox. Walker, J., & Co., L Levers Lloyd, Aimeé, & Co. Papier Poudré, Ltd. Queioh, H. C., & Co. Rosmarine Mnfg. Co. Stevenson & Howell, Ltd. Vinolia Co., Ltd.

Toilet Paper Ayrton, Saunders & Co., Ltd. Burgoyne, Burbidges & Co. Ford, Shapland & Co. Townsend, J., & Sons

Trade-Marks

Agents
Barker, R. W.
Ford, Shapland & Co.
Raworth, John E. Trade Protection Assoc. of Mnfg. Chemists, Ld.

Translations

mascarennas, Dr.

Trusses

Bailey, W. H. & Son

Bush, H. W., & Co., Ltd.

Laywood, J. H., Ltd.

Maw, S., Son & Sons

Sangers

Schutze, F., & Co., Ltd.

Wood, Vincent

Woodley, J., Sons & Co., Ltd.

Turned Wood Boxes Estes, E. B., & Sons Wright, Arch. J., Ltd.

Turpentine Lambert, Saml., & Co.

Vacuum Plasks Boyton, Chas., & Son Quelch, H. C., & Co.

Valgers

Baker, P. C.
Berdos & Fish
Brett & Co.
Orridge & Co.
Tomlinson, T., & Son

Vanilla Beans Magnus.Mabee&Reynard Inc.

Vanilin
Bush, W. J., & Oo., Ltd.
Greeff, R. W., & Oo.
Verona Chemical Co.
Zimmermann, C., & Co., Ltd.

Vaseline Chesebrough Manfg. Co.

Vermin-Killers Vertilini-manaco Bowley, S., & Son Browning, W., & Oo. Christy, F., & Co. Cox, Attbur H., & Co., Ltd. Onpal, Ltd Danyse Virus, Ltd. EvansSons Lescher& Webb, Ld Farmer, F., & Co. Harley, Thomas Hawker & Botwood, Ltd. Milner's Chemical Us.

Vet. Remedies Vet, Memorales, Chesebrough Manig, Os. Ohristy, Thos., & Oo Day & Sons (Orews', Ltd. Edwards, W., & Son Harvey & Oo. (Duhlin), Ltf. Tomlinson & Hayward, Ltf. Wyleys, Ltd.

Water Beds, &c Warne, Wm., & Co., Lta.

Water Glass EvansSons Leschera Webb, L Goodall, Backhouse & Co. Tomlinson & Hayward, L&L.

Water Stills Brown & Sons Stokes, F. J., Machine & Co.

Waters, Concentrated Robinson, B., & Co., Ltd.

Waxes
Asiatic Petroleum Co.
Boenm F., Ltd.
Farris, Charles
Morrison, R., & Co.
Price's Pat, Candle Co.
Wiener, R. O., & Co.

Weed Killers

Cooper, Wm., & Nephews Tomlinson & Haywaru, Ltd. White Oils Farris, Charles

Wickered Eau de Cologne Bottles Lang, Jules, & Son

Window Fittings Ayrton-Graham, Ltd. Southall Bros. & Barolay, Ltd.

Window Tickets Merten, F., & Co.

Wines, Medicated
Burrough, J., Ltd.
Burroughs Welloome & Ge.
Coleman & Co., Ltd.
Fletcher, Fletcher & Co., Ltd.
Robinson, B., & Co., Ltd.

Wrapping
Machinery
Forgrove Machinery Ce.,Ltd.

Wrist Straps Solport Bros.

Zine Oxide Huhbnok, T., & Son Ltd. Stevenson, H. E., & Co.

Zinc Sulphate Blythe, Wm., & Co., Ltd.

Fellows' Syrup of Hypophosphites

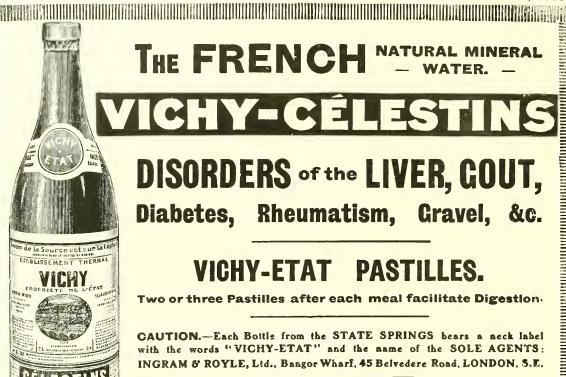
NOTICE—CAUTION

The success of Fellows' Syrup of Hypophosphites has tempted many to offer imitations of it for sale.

As these cheap and inefficient substitutes are frequently dispensed instead of the genuine preparation, Physicians are earnestly requested when prescribing the Syrup to write

"Syr. Hypophos. FELLOWS".

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles; the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness-or otherwise-of the contents thereby proved.



THE FRENCH NATURAL MINERAL

DISORDERS of the LIVER, GOUT, Diabetes, Rheumatism, Gravel,

VICHY-ETAT

Two or three Pastilles after each meal facilitate Digestlon.

CAUTION .- Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the SOLE AGENTS: INGRAM & ROYLE, Ltd., Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

GOVERNMENT. THE FRENCH PROPERTY

Profit

331% **PROFIT**

ON COST

CHELTENHAM NATURAL APERIENT WATER.

Pleasure

Satisfied customers, who always want more.

Patriotisn

It is patriotic, and it is good business to supplant Apenta, Hunyadi and Carlsbad Waters by Cheltenham Natural Aperient Water.

ELTENHAL

NATURAL

APER!ENT

WATER

THE NATURAL BRITISH PRODUCT.

Packed in Cases of 24 Bottles, 9/- per dozen.

Retail price (protected) at 1/- Bottle.

Order through Messrs. INGRAM & ROYLE, MAY, ROBERTS & CO., LTD., or direct from

CHELTENHAM THE NATURAL WATER

Priory Court, Cheltenham Spa.

SHOULD STOCK

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Quarter of a Century's Reputation.

ABDINE" is the most popular Health Drink. Superior to all Mineral
Waters. Sold in 1d. Packets, and Boxes of 13 Packets at 1/Order through your Wholesale Drug House.

D. M'CLASHAN, M.P.S., 12 West End Place, EDINBURCH.
Wholesale Prices on Abblication

Wholesale

ALL BRITISH

Only.

In various widths and qualities. Send for Samples, with Prices, and compare with any foreign production, to

The Norwich Crepe Co. (1856), Ltd., St. Augustines, Norwich, who are acknowledged to be the only manufacturers in Great Britain.



(EST. OVER 50 YEARS)

FOR

ASTHMA, BRONCHITIS, WHOOPING COUGH, &c.



MANDALL & CO., LTD. Proprietors:

Tower Works, Stockton-on-Tees,

IMPORTANT.

NATURAL MINERAL WATERS.

We beg to inform the Trade that we are regularly receiving consignments of all Continental and other Natural Mineral Waters, with the exception of those from Germany and Austria.

We are thus in a position to fully execute orders for the leading well-known Natural Mineral Waters, as under:

VICHY-CÉLESTINS

AND THE OTHER STATE SPRINGS (FRANCE)

AIX-LES-BAINS (France)
CHATEL-GUYON (France)
CONDAL (Spain)
CONTREXEVILLE-PAVILLON

(France)

EVIAN-CACHAT (France)
FIUGGI (Italy)
INSALUS (Spain)
LA BOURBOULE (France)
MONTMIRAIL (France)

MONTREUX (Switzerland)
PELLEGRINO (Italy)
PERRIER (France)
POLAND (America)
RUBINAT-LLORACH (Spain)
ST. GALMIER (France)
SANGEMINI (Italy)
TANSAN (Japan)
VITTEL (France)

etc. etc.

Prices of the above quoted on application.

Showcards, Dummy Bottles and Pamphlets forwarded gratis, Carriage Paid.

Any Natural Mineral Water not in stock, if procurable, can be imported to special order during the season.

INGRAM & ROYLE, LTD.

Bangor Wharf, 45 Belvedere Road, London, S.E.

Telephone: HOP 4343 (2 lines).

Telegrams:
"INGRAM ROYLE, WATLOO, LONDON"

LIVERPOOL: 19 South John Street.

Telephone: BANK 4528.

Telegrams: CELESTINS LIVERPOOL.

BRISTOL: Bath Bridge.

Telephone: 1113.

Telegrams: "SPRUDEL BRISTOL."

The only actual Manufacturing Wax Chandler in the City of London



This map shows the easy accessibility of Farris's from all parts of London.

"FARRIS'S" GENUINE WHITE BEESWAX.

GUARANTEED PURE AND AIR BLEACHED.
IN 1-oz. FLAT ROUNDS OR BLOCKS.

Celebrated for excellence and purity nearly three quarters of a century. SAMPLES AND PRICES SUBMITTED FOR COMPARISON. Large Stocks always ready for immediate delivery.

—Pure English Refined SPERMACETI— WAXES of every known kind and for every purpose.

CHARLES FARRIS, 71 BISHOPSCATE, LONDON, E.C.

Warehouses & Stores-91 & 93 BISHOPSCATE, and 12 WORMWOOD ST., E.C.

TELEGRAPHIC ADDRESS: ELEVEN CENTLONDON

Mawis

S.MAW, SON & SONS

71012, ALDERSGATE ST

LONDON, E.C.

(M)

Page

TELEPHONE
CITY 7
PRIVATE BRANCH EXCHANGE

NUMBER 226

FEBRUARY 12, 1916

SYNTHETIC OTTO OF ROSE

Ce and Albanian Control of the Contr

A superb production; and the price is steadily rising! To obtain our Synthetic Otto of Rose at the *present* figure we advise our customers to order without delay.

The nearest approach to the genuine Otto—a triumph in perfumery!



13/6
PER
OUNCE
IN
ELEGANT
CUT AND
GILDED
BOTTLES
AS
ILLUSTRATED
USUAL
DISCOUNT

The Countess

The wife of the Governor of Peru, he Countess of Chinchon was, in 638, laid up with an attack of fever. esuits' bark was administered to he lady with such complete success hat the valuable discovery was amed after the distinguished atient—cinchona.

Quinine, the principal alkaloid of inchona, has become recognised y the public as a sound prophylictic against influenza. Put up in apsule form, with or without the includition of cinnamon, quinine a pleasant and easily liministered remedy.

ME,

The greatest success of all is our *und-made* capsules. With these,

accuracy of dosage is ensured, they have a greater degree of solubility, and they retain their flexibility for a longer period than the machine made variety. The whole appearance of the hand-made capsules—clearness and brilliancy of the gelatine, colour of contents, and freedom from specks—is perfect.

Again, the hand-made capsule obviates to a large extent the great danger of leakage. The method of closing those made by mechanical means results in a suture completely around the whole capsule.

Our hand_made capsules are closed at one end.

Good capsules throughout, they are worthily put up in attractively printed tins, with metal divisions. This applies to our Ammoniated Quinine Capsules and our Ammoniated Quinine and Cinnamon Capsules. We have also an excellent line of Ammoniated Tincture of Quinine Capsules put up in round enamelled tins.

Here is an offer: We will print your name and address free on either of the above lines on orders for 1 gross or over.

We should like to send you prices of these hand-made capsules.

Capsule

PURE MILK CASEIN with GLYCERO= **PHOSPHATES**

supplied under Buyer's own name& labels at same prices.

Cable Address:

"SELGOG LONDON."

ASPIRIN ACETYLSALICYLIC

British Make. Bulk & Tablets.

VITAGEN 10/6 16/6 27/- 45/per dozen. Bulk 3-16.

Tins

same weights

as Sanatogen.

Telephone: 2215 London Wall.

BROMIDES AMMONIUM. POTASSIUM. SODIUM

DIAMIDOPHENOL (AMIDOL) British Make.

IONONE

Pure 100%

LORIMER JOHN

ESTABLISHED 1872.

119 Finsbury Pavement, London, E.C.

ALL-**BRITISH** YSOI

Bulk & Bottles. Special Prices to Wholesale Buyers.

HEXAMINE HÆMOGLOBIN **PEPSINES**

SILVER PROTEINATE

> (Protargol) P.G.V.

> > British Make

ADEPS LANÆ.

Anhydrous and

Importer of American Sundries SURGICAL FORCEP STYPTIC ASTRINGE PENCILS. Manicure Flexible Files.

RUBBER GOODS.

etc. etc.

Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants, - Manufacturing Chemists

HULL

Regret that, owing to great increases in cost of ingredients and containers, they are reluctantly compelled to raise the net prices of the following P.A.T.A. lines:

Protected Retail. Dozen Net. 6d. tins 4 -LOSALL'S SALT 1/- .. 8/-1/6 bottles 10/6 .. BALLROOM FLOOR POLISH 1/- tins 7/-,, MILK FOOD (1/- tins) 10d. each Dozen Boxes net. 4d. tabs. 8/6 LOSALL'S SOAP

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lotthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

(3 tabs. in box)

PASCALL'S

GOLDEN

Contains 25% Pure Malt Extract



of

especial

food value for Children.

- Pascall's Golden Maltex is admirably suited for sale by Chemists, owing to its nutritive and restorative qualities.
- Order through your Wholesale Druggist, or direct from the manufacturers,

JAS. PASCALL, Ltd., LONDON, S.E.

Sanaph

T.M. Reg.

Briton, which you prefer to sell, the British made Sanaphos or an inferior German product?

> THE BRITISH MILK PRODUCTS Co., LTD., 69 Mark Lane, LONDON, E.C.

The fixed prices at which Sanaphos is sold show a net profit to the retail chemist of over 30 per cent. on selling price (over 40 per cent. on cost).

The wholesale prices are:—1/- size, 8/6 per dozen; 1/6 size, 12/9 per dozen: 2/6 size, 21/- per dozen; 5/- size, 42/- per dozen.

Sanaphos is a reconstructive ERVE Food. It is Nutrient, NERVE Food. It is Nut Restorative and Activating.

It is indicated in Mental and Physical Fatigue; Nervous Breakdown; Insomnia; and Neurasthenia.

The product of an alien enemy effectively displaced by Sanaphos.

Sanaphos is an organically phosphated milk product, much superior to the German-owned article.

It is prepared in England under strict scientific control.

Chemists are invited to write for samples and all particulars; and to send names of physicians, to whom we shall be pleased to send samples of Sanaphos and copies of numerous professional endorsements.

THE MOST ECONOMICAL INFANTS' FOOD.

ON P.A.T.A. LIST.

SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.



A Marvel of Simplicity & Utility

Is the most welcome gift tosoldiers in the trenches . . . Give him one before he leaves for the front. . . . For preparing food out of doors it is perfection.

Used by the British, Belgian and French Army in the Field, and the Red Cross Society.

PRICE, 1/- REFILLS, 2/-

ADVANTAGES.—1. Wind does not blow it out. 2. Composition unaffected by weather or climate. 3. Stand carries heavy pots or pans.

Tommy's Cooker Co. Ld. Works: 31 Carburton St., London, W.

PAINT

BRITISH MADE

DECORATION

In Rolls, 20 inches wide

Write for Quotations to

J. DAVIES & CO.

43 Basinghall St., London, E.C.

LARGEST STOCK OF BRONZE POWDERS



Your Orders by 'Phone or Post.

Increase Them!

Ten years of experience in doing this for Chemists and Druggists—wholesale and retail—are at your disposal. Will you write saying what Proprietary or Service you wish p shed? My reply entails no obligat on.

F. A. DEGEN, F.I.S.A.C. (Chemist & Druggist Ad. Specialist), c/o The "Chemist and Druggist," 42 Cannon St., London, E.C.

BRITISH MADE ANTISEPTIC DISINFECTANT

Contains commercially pure Cresol in the same proportion as does Lysol. Soluble in water, giving a clear solution, unif rm throughout.

CELTYL, Disinfectant Fluid, 18-20 Co-eff.
CELTIC CROSS, Ordinary Disinfectant Fluid,
CELTOLENE, Antiseptic Liquid Soap.
Sheep Dip, Crude Carbolic Acid, Soap Powder, Domestic Liquid Soap and all other Coal Tar Products. All British made by the

CELTIC CHEMICAL CO., Petershill Road, GLASGOW.

Agents: CELTOL SUPPLY AGENCY

AUGUST REICHWALD, LIMITED. (Estab. 1872), Entirely British Owned and Controlled. Finsbury Pavement House, London, E.C.

ZON-VAC

BRITISH MADE

VACUUM FLASKS

WILL BE EXHIBITED AT THE

British Industries Fair Victoria and Albert Museum

ON OUR STAND

J 13

(Opposite the Refreshment Room).

WE HOPE TO HAVE THE PLEASURE OF SEEING YOU.

CHARLES BOYTON & SON

Upper Charles St., Goswell Road, London, E.C.

Prompt Sales Quick Turnover Increasing Demand Protected Price

You stock "Wincarnis". our advertising sells it for you. There is an enormo and ever-increasing deman for "Wincarnis," because is a good article backed 1 by a powerful advertisis campaign. Don't ris losing sales through beit out of stock. Glance your stock now.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENSES.—It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a license.

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.





CROSSE & BLACKWELL'S



"UNEXCELLED" MEDICATED PREPARATIONS



Lozenges

Brompton

Black Currant

Linseed L. & C.

Pine Tree

Poor Ben's Cough

Hospital Cough

C. X S. Peppermint

Acidulated Tablets



Cachous

Carnation

Mixed Bouquet

Lavender

Lily-of-the-Valley

Heliotrope

Jockey Club

Parma Violets

Rose, etc.

AMPLES & PRICES OF THE ABOVE ON APPLICATION TO—

SOHO SOUARE





THE EXTRA PHARMACOPŒ NOW READY.

By MARTINDALE & WESTCOTT.

SIXTEENTH EDITION (1915).

REVISED AND ENLARGED

PRICE 21s. net; postage 5d., abroad 6d. Separately, Vol. I., 14s. net; postage 5d. Vol. II. 7s. net; postage 3d.

"It is a book that is indispensable to the modern pharmacist, and in this case an ole edition is not 'just as good.'"—Chemist and Druggist.

The two volumes together form an invaluable compendium of information.

A work of great utility."—The Lancet.

[British M

[British Medical Journal The Extra Pharmacopæia maintains its high standard and more. All interested will welcome this new edition of an indispensable book."—Pharmaceutical Journal.

LONDON: H. K. LEWIS & CO. LTD., 136 GOWER ST., LONDON, W.C.

Also of W. MARTINDALE, 10 NEW CAVENDISH STREET, LONDON, W.

LONDON COLLEGE OF PHARMACY

Principal-HENRY WOOTTON, B.Sc. (Lond.)

Courses of Lectures, Classes, and Practical Work for Minor and Major begin on April 5. Entries may now be received.

APOTHECARIES' HALL Course begins May 1.

Separate Class Rooms and Museum for Lady Students.

JANUARY, 1916.-24 London College Students passed.

The number of Students who have passed the Pharmaceutical Examinations from the London Colexceeds that from any other school. College since its, establishment

For Prospectus, &c., apply to the Secretary, LONDON COLLEGE OF CHEMISTRY AND PHARMACY, 361 Clapham Road, London, S.W.

PRELIMINARY EXAMINATION for PHARMACEUTICAL STUDENTS

THE College of Preceptors holds Preliminary Examinations in March June. September, and December. All the Examin tions are held it London, Aherdeen, Birmingham, Blackburn, Bristol, Cardidf, Edinburgh Glasgow, Leeds, Liverpool, Manchester, Newcastle-ou-Tyne, Nottingham. For the June and December Examinations there are other entres, including Blackpool is ignor. Carmarthen, Cheitenbard, Croydon, Exeter, Marg-te, Plymouth, Portsmouth, Sheffield, South ampton. Southend, Southport. Sunderland, Weston-super-Mare, and York. For Regulations apply to the Secretary, College of Preceptors Bloomsbury Square, London, W.C.

PHOTOGRAPHY

The big shilling book of practical photography is the "Briting Journal" Photographic Almanac.

Up-to-date on Cameras, Outfits, Processes, etc. Nearly 1000 pages, 55th Edition, just Published. Paper cover, 1/- net. Cloth bound, 2/- net-

Order from your Newsagent, Bookseller or Bookstall.

ESTMINSTER COLLEG

The Oldest Established Private School of Pharmacy in England. Founded in 1874 by G. S. V. WILLS, Ph.C. Telephone: 1728 BRIXTON.

WILLS'S UNIVERSAL POSTAL SYSTEM

For the MAJOR, MINOR, PRELIMINARY, APOTHECARIES' HALL, FAIRCHILD, and BELL'S SCHOLARSHIP. Fee £1 1s.

HE fact that a very large proportion of students fail to pass the Examinations of the Pharmaceutical Society and Apothecaries' Hall, even in many cases after very diligent self-preparation, shows most clearly the absolute necessity of a DEFINITE SYSTEM OF INSTRUCTION.

Among these rejected candidates, some of whom, in the bitter disappointment of failure, throw up all hope of a pharmaceutical career, and betake themselves to other paths in life, there are, no doubt, many who, had their studies been directed by a competent master, or pursued in accordance with a systematic and definite plan, would not only have passed the examination with ease and credit, but also have become honoured and distinguished members of the profession they aspired to join.

This system has now been in operation for over 40 years, and has been found to be a most complete and unbounded success. By its means a student residing in any part of Great Britain may be prepared with almost equal facility with those who, living in London or other large eities, are able to attend a regular course of instruction; and thus it will be seen that this system is eminently applicable to all country students.

OPINIONS OF THE PRESS.

"Wills's Universal Postal System provides a comple course of 100 lessons for home students."-Pharmaca tical Journal

"The idea on which this system is based is to arran for each student his course of study, and to provide hi generally with the necessary knowledge."-Chemista Drugaist.

"Students who are unable to attend a school of phe macy will find Wills's Universal Postal System a usef means of obtaining a thorough grounding in the required subjects."-British and Colonial Druggist.

To an ardent, anxious pupil we believe there is short cut from the Westminster College to Bloomsbur Square, and that any student can become a Pha maceutical Chemist if he Wills it."-The Chemist

For Prospectus, Pass List, &c., Call, Write or 'Phone to the Secretary, 402 Clapham Road, S.W.



Dichroic Ink

Makes Writing Easy

Proprietors:

Bewley & Draper, Itd., Dublin.

Economical Printing

F you are a small or large user of printed matter, make a point of asking us o submit an estimate for your next order. You may not only save money, but you will have the satisfaction of knowing that our pest efforts and workmanship will be utilized to please you, and thus merit your further patronage.

JAMES F. WILKINSON

PRINTER FOR BUSY BUSINESS MEN

PENDLETON, MANCHESTER

Telegrams: "Reindeer, Manchester." Telephone: City 1102

INICA

THERMOMETERS.

Best Quality at Lowest Prices

WRITE FOR PRICE LIST.

40 DIFFERENT KINDS.

Special Quotations to Wholesale Buyers

(Regd.)

CLINICAL THERMOMETER.

MERCURY COLUMN SEEN AT A GLANCE. Made in Two Rapidities, 1 Minute and 2 Minute

New Price List of Thermometers for every purpose, post free.

PERKEN, SON & CO.LTD.

Contractors to H.M. Government. 99 Hatton Garden, LONDON.



Morning and Evening, Four-hour, Sick Room, Diet, Tuberculosis, and others.

PLAIN BOARDS with Leather Corners and eyeletted

to hong up. JAPANNED TIN Washable Chart Holders with corners and a ring to hang up.

Used in all the Principal Hospitals and Infirmaries.

WODDERSPOON & CO., GATE STREET, KINGSWAY, W.C.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED .- 3 and 4 oz., 6 and 8 oz., 12 oz., 16 oz.

WHITE PHIALS.—‡ oz., 1 oz., 1½ oz., 2 oz. Plain or teaspoons, 8LUE LOTION BOTTLES.—‡ oz., 1 oz., 1½ oz., 2 oz., 2 oz., 3 oz., 4 oz., PANEL BOTTLES.

We send six gross assort.

We send six gross assort a or otherwise, carriage paid withing seven miles, and to certain stations. Particulars on application DORKS.

Grood quality. No advance in price: 6 and 8 oz. bottles, 9d. per gross in 6 gross bags. Vials 6d. per gross in 3 gross bags.

I. ISAACS & CO.,

106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W. By ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Read, Lendon, W. Orders sent to either establishment have attention. Established 100 Years.

"LESCOL" FLORAL PERFUMES

In 50 Different Odours.

For Home & Export, to suit all Markets.

LINES FROM 1d. TO A GUINEA.

YOUR ATTENTION IS DRAWN TO OUR

EAU DE COLOGNE In All Sizes. Own Manufo

Own Manufacture

Also LAVENDER WATERS, SMELLING SALTS, BRILLIANTINES, and all Toilet Preparations.

Write for our NEW PRICE LIST (Illustrated in Colours), showing our very attractive New Lines, to the

LESCOL PERFUMERY CO.,

Lomond Grove, Camberwell Green, LONDON, S.E.

2

S

E

Telephone: 810 HOP.

2

1

0

-

Telegrams: "VANILLIN, CAMBER, LONDON."

A powerful antiseptic and deodorant.

PETAL DUST REGID

The greatest of all floral air-purifiers.

A concentrated combination of the choicest flowers, aromatic herbs and roots, with the rare spices and gums of Arabia. "Petal Dust" has been the favourite perfume of all classes for over half a century and still commands the largest sale of any dried perfume in the world.

Retails in 3d. and 6d. packets

Attractive Showcards, Counter Bills, etc., with customer's name and address on each packet, for orders of 5 gross and upwards.

SOLE PROPRIETORS-

THE ROSMARINE MANUFACTURING COMPANY, STAMFORD STREET, LONDON, S.E.

CITY DEPOT: H. C. QUELCH & CO., LUDGATE SQUARE, LONDON, E.C.

-1000 -

of our employees are serving with His Majesty's Forces. Most of them are now in the fighting line.

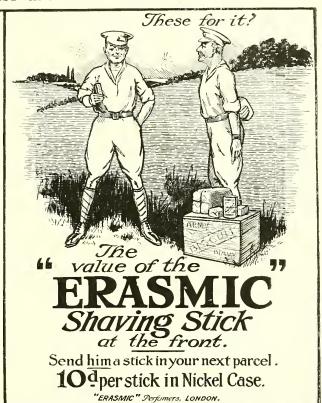
We have thousands of orders awaiting delivery. The Railway Companies cannot handle traffic quickly enough.

We shall be very glad indeed if you will kindly oblige us by placing your orders with our representatives as soon as possible for forward delivery. It is impossible to get goods delivered straight away.

The sooner we obtain the orders, the sooner you will get supplies.

ERASMIC

Perfumers, WARRINGTON.



Toogood's Packed Toilet Preparations in Collapsible Tubes.



2629



2667



2508



2509



9456

No. 2629. Toilet Lanoline ,, 2667. Boracic Ointment ,, 2508. Cold Cream

,, 2508. Cold Cream ,, 2509. Vanishing Cream ,, 2452. Solid Brilliantine 3 sizes ... 2 ,, ... 2 ,, ...

2/9, 3/9 and 5/6 per doz. 3/3 and 4/9 ,, 3/9 and 5/6 ,,

Customer's name free on 3 dozen of any one kind, and showcard supplied.

WILLIAM TOOGOOD, Ltd., 77 Southwark St., London, S.E.

SAM! LAMBERT & CO.,

MINCING LANE, LONDON, E.C.

Importers and Exporters. First hands for all

Estd. 1870.

CRUDE DRUGS &

A few Specialities:—

ESSENTIAL

ARABIC GUMS, CASCARA SAGRADA, ERGOT, CITRIC ACID, COD LIVER OIL, CREAM OF TARTAR, GLYCERIN, HONEYS, MESSINA ESSENCES, OLIVE OIL, PEPPERMINT OIL, QUININE, QUICK-SILVER, RHUBARB, SARSAPARILLA, SHELLAC, TURPENTINE.

Sole Agents for:

Oils: Lemon, Bergamot, Orange; Terpeneless Oils: Lemon, Bergamot, Orange.—Fratelli de Pasquale & Co., Messina Bay Rum and Bay Oil.—Bornn, St. Thomas.

Essential Oils, Drugs, Chemicals, &c.—National Antiline & Chemical Co., New York.

DODGE & OLCOTT CO., THE "D & O" BRAND

LONDON, E.C.

20 MARK LANE.



is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu. TONKA BEANS Angosturas.

Telegrams: "EGDARF, FEN, LONDON."

'Phone:

CITY 2468.

GENUINE AMERICAN

"Columbia" Natural "Diamond White" Re-distilled.

Finest qualities for Druggists, Distillers and Confectioners.

Sole Consignees in United Kingdom-R. W. GREEFF & CO.

Thames House, Queen St. Place, LONDON, E.C.



F. M. RUDD, Bronson, M!CHIGAN. U.S.A

MAGNUS. & REYNARD. Inc.

257 Pearl Street. New York City, U.S.A. Cable Address-

Importers and Manufacturers.

ESSENTIAL OILS, VANILLA BEANS. DRUGS & CHEMICALS.

We offer for sale—

Oil Peppermint, American Oil Sassafras, Natural

., Spearmint

- Birch (Wintergreen)
- , Wintergreen Leaf ,, Cedarwood
- .. Limes, Distilled
- H. P. 0.0

- Artificial
- .. Wormseed, Baltimore
- .. Wormwood, American Sandalwood, W.I.
- Balsam Tolu
 - Copaiba
 - Peru

We solicit correspondence relating to the purchase or sale of any article used in the Drug, Perfumery or Soap Trades.



Showcards and full particulars.

Don't forget

to lay in a good stock of Anzora the only non-greasy preparation that effectually masters the hair. It will pay handsomely as one of your leading lines, for its popularity amongst men is still increasing by leaps and bounds, and it is being used to an extraordinary extent by officers and men in the fighting line

meda gold CREAM

Get your customers to send a bottle set your customers to send a bottle to their men folk at the front—it will be appreciated. Don't stock substitutes, they only disappoint and usually leave flaky deposits.

TRADE TERMS. 11/6 per dozen, Retailed at 18/-

ANZORA PERFUMERY CO. 32/34 WILLESDEN LANE, N.W.

soake Roberts &Co., Ltd.. STRATFORD. LONDON.E.

Distillers and direct Importers of all important

Essential Oils.

Manufacturers and Distillers of

ESSENCES,

SYNTHETIC PERFUMES, &c.

including

Anethol, Citral, Citronellol, Eugenol, Geraniol, Geranylacetate, &c.

Terpeneless Oil of Lemon. Sesquiterpeneless Oil of Lemon.

Write for samples and quotations.

A.Boake Roberts & Co., Ltd...



THE BRYTSTELE OUTFI

For Safety Razors

Safety Razors kept in a Brytstele Bath Salety Razors Rept in a Dryssele Bath do not require to be taken apart for cleaning or drying. Brytstele Solution keeps blades sharp for at least two months without stropping. Blades and Holders are kept bright, anti-septic, and free from rust.

ATTRACTIVE OUTFITS AS ILLUSTRATED.

7/- .. Refill Bottles(10 o z.)

1, 8d. each

13/- .. Carriage paid on dozens only. THE BRYTSTELE Mig. Co., 106 High Street, Camden Town

Good Showcards,

Anti Gun - Deafness Device

Approved by the Admiralty.

THE MALLOCK-ARMSTRONG EAR DEFENDER.

(Mr. A. Mallock, F.R.S.—Messrs. Armstrong, Whitworth, Ltd. PATENTED. SMALL SOUNDS HEARD CLEARLY FROM USUAL DISTANCES

Employed in every branch of the three Services, and in the Royal Aircraft and other Factories. Retail Price 4/-.

TRADE TERMS and particulars from

THE MALLOCK-ARMSTRONG EAR DEFENDER CO. 86 York Street, Westminster, S.W.

Showroom & Factory: 5 Carteret, St. (St. James's Park Station) Telephone No.: VICTORIA 2944.

A Profitable Seller



THE

NET WEIGHT

Weighs up to 15 lb.

Price Retail 11/6 1/6 each.

Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

184 to 190 Goswell Rd., London, E.C.

Obtainable through all Wholesale Houses.

SEA

ON P.A.T.A. LIST. INCREASED PROFITS TO ALL WHO KEEP IT STOCK.

Orders of Twenty Shillings value and upwards Carriage Paid-Cases Free, less 2½ % Discount for Cash.

Price, Per Box. 1d. Packets 1/ 12in box 11d 4/6 2d 2/ 1/10 16/9 1d. linen Bags 1/ 6 in box 11d 8/6 2d 3½a., 8d 7d 2/10 pr.dos. Boxes, about 1½b. 4d 7d 5/8 1/	Advertised	minimum	Pennan
1d. Packets 1/ 12 in box 11d 9/6 2d. ," 2/ ," 1/10 16/9 1d. linen Bags 1/ ," 11d 8/6 2d. ," 1/ 6 in box 11d 8/6 Boxes, about 12b. 4d 3½d 2/10 pr.dos	Price.	Retail Price.	Wholesale Price
2d. ", 2/ ", 1/10 16/9 1d. linen Bags 1/ ", 11d 8/6 2d. ", 1/ 6 in box 11d 16/9 Boxes, about 1½ b. 4d 7d 2/10 pr. dos ", 3½, 8d 7d 5/8 ", 7 ", 1/2 1/ 10/- ", ", 14 ", 2/ 1/10 18/3 ",	Per Box.	Per Box.	Per Gross.
2d.	1d. Packets 1/	12in box 11d.	9/6
1d. linen Bags 1/ , 11d 8/6 2d. , 1/ 6 in box 11d 16/9 Boxes, about 1½b. 4d 7d 2/10 pr.dos.	04 0/-	1/10	16/9
2d. ,, , , , , 1/ 6 in box 11d 16/9 Boxes, about 1½1b. 4d 3½d 2/10 pr.dor. , , , , , , , , , , , , , , , , , , ,		110	0/6
Boxes, about $1\frac{1}{2}$ lb. 4d $3\frac{1}{2}$ d $2/10$ pr. dos $3\frac{1}{2}$, 8d 7d $5/8$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/3$	04 1/-		16/0
., , , 3½, 8d , 7d 5/8 , , , , , , 1/2 , 1/ 10/ , , , , , , , , , , , , , , , , ,			
,, 7°,, 1/2 1/ 10/ ,, 14°,, 2/ 1/10 18/3			E/0
", 14 ", 2/ 1/10 … 18/3 "			
,, ,, 14 ,, 2/ 1/10 18/3 ,,	7 1/2	1/-	10/- ,,
	14 0/-	1/10	18/3 ,,
SINGLE BAGS of following 3 sizes sent CARRIAGE PAID to an	DINGLE DAGS OF TOTOWING	SILES SEIL CHAR	ma Etack to hold.

place in the United Kingdom, so that there is no Si

	Advertised	Minimum		
	Price.	Retail Pric	e. Wholesale Price	
28-Ib. Bags (or E	Boxes) 3/- each	3/-	2/6 each	
cwt Bags	5 6 .,	5/6	4/7 ,,	
1-cwt. Bags	10/	10/-	8/4 ,,	
The fellowing ave		bion obe	cases free, to as	1

The following are also sent, carriage paid, cases free, to an place in the United Kingdom, for net cash: 4—7 lbs. Roxes, 3.0 the lot; 6—7 lbs. Boxes and upwards at 10.1 per dozen (list price).

Orders for assorted sizes to the value of 7/6 and upwards.

TIDMAN'S SEA SOAP, beautifully perfumed.

Advertised Price.

Box of 3 large Tabs. 1/- each ... 10\frac{1}{2}d. ... 7,6 per doz. bote ... 1- boto ... 10\frac{1}{2}d. ... 7,6 per doz. bote ... 1- boto ... 10\frac{1}{2}d. ... 5d. ... 3/9 ... 11- boto ... 1- boto ... 10d. ... 3/- per doz. bote ... 1- boto ... 1- bo

Accounts Mouthly Net due 10th of following month. Terms for Seidlitz Fowders, Pinnacle Soap Stands, Toilet Soaps, &c., sent on application.

TIDMAN & SON, Ltd., Wapping, London, E.



WO GOOD SELLERS HAT PAY

The Ideal Fruity Laxative in Pastille Form. 1/3 per box (P.A.T.A. minimum 1,2). EFFECTIVE

ANALAX

DELICIOUS RELIABLE

FROZOCI

The World's Great Perfumer and Refresher-in Solid Form. Retails 2/- (P.A.T.A. minimum 1/9)

R. DEMUTH'S LABORATORIES, 68 Salusbury Road, LONDON, N.W.



Eau de Cologne "RHEIMS" Brand

-/6 Bottles per doz.

Subject to usual 5% discount.

A good lasting perfume selling freely as a patriotic line wherever it is shown.

FRANCIS NEWBERY SONS. Ltd.. Proprietors: 27 Charterhouse Square, London, E.C.

Selling Splendidly!



THE

CROSS

CARBOLIC

CONFINED TO PHARMACISTS!

Two Sizes: 21/- and 33/- gross. 1d. Sample Tin, 7/6 gross.

The Institute of Hygiene have granted their Certificate of Merit for this article; also for the

WHITE CROSS BABY POWDER

IN DECORATED SPRINKLER TINS: 41. doz.; 3 doz. 3/9; 6 doz. 3/7; 12 doz. 3/3. On the P.A.T.A. at 6d.

Showcards issued for both articles, being a reproduction of the Certificate of Merit.

Write for Samples and judge for yourself.

SHIRLEY BROTHERS, LTD.

Whitecross Works, London, S.E.

OVER 100 % PROFIT ENSURED & PROTECTED (P.A.T.A.)

9/-15/-

for sellers of

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit-

Size.	Mın	imum re	tail	Minimum	wholesale.
1/-		1/-		7/6	
1/6		1/6		9/- [per doz. less 5 %
2/6		2/3		15/- (discount
3/6		3/3		21/-)	

SPECIAL BONUS.

Buyers of 3 doz, bottles receive 3 bottles gratis (may be assorted and any size).

6 doz. do. 8 bottles gratis. 12 doz. do. 18 bottles gratis. Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

Sole Proprietors

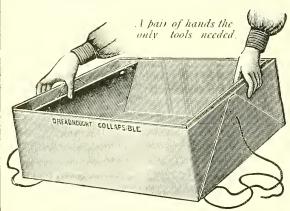
C. R. HARKER, STAGG & MORGAN, DEVON WHARF.

Emmott Street, Mile End, London, E.

Pack your goods

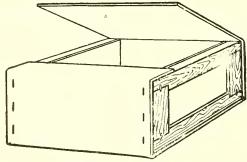
"DREADNOUGHT" Patent COLLAPSIBLE BOXES

and so ensure transmission without risk of breakages.



"Dreadnoughts" possess all the essentials of the ideal packing case and are daily being adopted in the place of wood cases by the most progressive Houses in the trade.

where Boxes of even greater strength are required, we suggest the adoption of "HERCULES" WOOD-END BOXES.



These Boxes, constructed with fortified ends, possess the maximum of strength and capacity with the minimum of weignt. They are delivered flat (if desired) for customers to make up.

State sizes of boxes, weight, and nature of contents and approximate quantities required, when all the requisite information will be forthcoming.

Address the Sole Makers-

GLOBE BOX CO., HYDE .: CHESHIRE

(Proprietors: Cartwright & Rattray, Ltd.)

Telephone: No. 115 Hyde (2 lines).

CARTONS FOR STOCK LINES



WE HAVE A LARGE VARIETY OF CARTONS IN STOCK, ONE OF WHICH WE ILLUSTRATE ABOVE. THE WORKMANSHIP IS GOOD THROUGHOUT, AND WE CAN RECOMMEND THEM TO ALL WHO WISH TO SEE THEIR GOODS WELL PACKED.

WE SHALL BE GLAD TO SEND SAMPLES OF ANY OF THE FOLLOWING CARTONS FOR

BLOOD MIXTURE
CAMOMILE
COUGH BALSAM
EMBROCATION
FRUIT SALINE
HAIR RESTORER
HYPO
LEMONADE CRYSTALS
NEURALGIA MIXTURE
SENNA
SEIDLITZ POWDERS
SYRUP OF FIGS
ETC. ETC. ETC.

ROBINSON & SONS, LTD.

BOX MAKERS TO THE CHEMIST TRADE

CHESTERFIELD & LONDON.

(21)

HOVENDEN'S BRITISH GREASE PAINTS

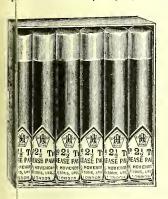
These Paints are Manufactured at our Factory in Britannia Row, N. Guaranteed pure, colours perfect, and quality better than any foreign make.

We have received the following Testimonials from the well-known Comedians:

"I thank you for sample of your Grease Paints you sent, and I find it a very excellent preparation. I shall ce sinly continue to use it."—WILL EVANS.

"I beg to thank you for samples of your Grease Paints which I have been using for a fortnight, and in my opion it is in every way up to the German article, and is decidedly the best I have tried."—LLOYD MORGAN.

MADE IN THE FOLLOWING SHADES:



- Very pale flesh.
- Moderately pale. Fair complexion.
- Medium flesh.
- Pale complexion. 3.
- Slightly sunburnt. 33.
- Dark flesh. 4.
- Sallow or Chinese.
- Dark sallow. Yellowish flesh.
- $6\frac{1}{2}$. Japanese. 7. Brown.
- Armenian Bole. 8
- Sunburnt or Indian.

- Light Brown. 10.
- Burnt Umber or Othello. 11.
- Black.
- Red Brown or Mulatto.
- Chocolate or North 14. African.
 - Brick red.
- 16. Dark brown.
- Carmine, vermilion, 17.
- light. 18. 9.7
- 19. medium. 2.1 dark.
- 22. extra dark.

- White. 20.
- 23. Light grey. Dark grey. 24.
- Old red. 25.
- 26. Light blue.
- 31. Middle blue.
- 27. Dark blue.
- Light yellow.
- 29.
- Dark yellow. Rose.
- Dark Rose. 32. Chrome. Citron.

3/3 per doz. Sticks.



LINING PENCILS.

English Manufacture.

Black, Old Red, Brown, Light Brown, Dark Brown, Light Blue, Medium Blue, Dark Blue, White, Flesh, Light Grey, Dark Grey, Carmine.

2/3 per doz. Sticks.



Not less than one box containing Six Sticks supplied.

FETT POWDER.

6d. Tins, 4/- per doz.

1/- Tins, **8**/- per doz.

COCOA BUTTER.

6d. Sticks, 3/6 per doz.

1/- Sticks, 7/6 per doz.



Su ect to 21/2 % Cash Discount.

A copy of our Monthly List will be forwarded on application.

2930, 31, 32 & 33 BERNERS ST., OXFORD ST., W. Tel. No.: Museum 2810 (3 lines). Ar 89, 91, 93, & 95 CITY RD., FINSBURY, E.C. Tel. No.: 6260 London Wall (2 lines).

LONDON.

Factory: BRITANNIA ROW, ISLINGTON, N.



"PARASTIK"

NON-POISONOUS and easy to use. A display on your counter will be the best test of this contention. Try it and get good profits easily.

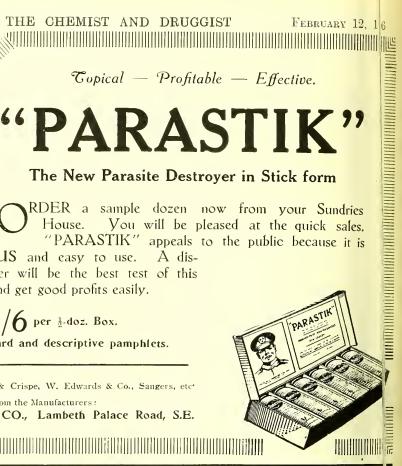
Price 3/6 per ½-doz. Box.

Each with showcard and descriptive pamphlets.

Supplied by Messrs. Butler & Crispe, W. Edwards & Co., Sangers, etc.

Also from the Manufacturers:

W. BROWNING & CO., Lambeth Palace Road, S.E.



KAY BROTHERS, Ltd. STOCKPORT,

Manufacturing Chemists.

BIRDLIMES and FLY GUMS for all climates.

FLYPAPERS, "Big Bat "&" Falcon "Brands. Non-Poisonous.

FLYCATCHERS, TAPES & BANDS. Spiral Wire, "Vampire." Cavity Tape, "Flysac." Scorpion."

"Dragon." "Viper. Roll Band. (2 in. and 4 in. wide.)

CEMENTS.

"COAGULINE." Transparent Cement for broken articles, 6d. bots.
"TENASITINE." A Liquid Cement in Tubes, 1d., 2d., 3d. & 6d.
"KLINX." Hydraulic Cement (heatproof), 6d. tins.
"CUE CEMENT." 6d. & 1/-.

SANITARY FLUID. For Disinfecting and Deodorising. In Tins or Casks.

- " PULVICIDE" (Patented). A Dustlaying Compound. Agents wanted for its introduction to Municipalities.
- "LINSEED COMPOUND." P.A.T.A. A Cough Mixture of 50 years' proven excellence.



HELP HIM FIGHT HE RATS

Rats are a plague on the battlefield and the cold weather has brought them in swarms into the "Dug-outs," making it very uncomfortable for the men. A soldier writing for "Rodine" says: "We have had simply marvellous results with it. 'Rodine' cleared out the lot.''

Push "Rodine." It yields nearly 100 per cent. Profit.

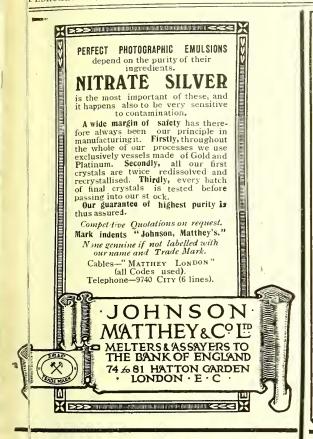
HARLEY,

Manufacturing Chemist, PERTH, SCOTLAND.

Export Agents: TOZER, KEMSLEY & FISHER, LTD., 84 Fenchurch Street - London, E.C.







IMPORTANT NOTICE

Crosby's Balsamic Cough

Dr. Rooke's Solar Elixir Dr. Rooke's Oriental Pills

In view of the extensive demand created for these products by our new advertising campaign, and in order that your customers shall secure these articles in their best possible condition, the Proprietors give notice that they are willing to exchange any old or soiled stock for new stock.

The NEW PRICES are as follows :-

 Size
 ...
 ...
 1/3
 3/ 5/ 12/

 Minimum Retail Price
 1/2
 2/11
 4/10
 11/6

 Wholesale (per dozen)
 11/8
 29 6
 48/ 117/6

Discount.-10 per cent. on parcels of £5 and upwards, cash at 14 days (otherwise strictly net).

Packages. - Free. Carriage paid on £5 parcels.

DR. CHARLES ROOKE, LIMITED, LEEDS.

Chemists'

Patent Medicine Printers,

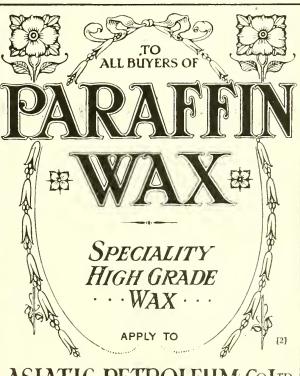
FOLDING BOX MAKERS, LABELS, POWDER POCKETS. PRESCRIPTION ENVELOPES.

> and every kind of Printing .. required by Chemists ...

Alf. Harrison & Sons, 224 BURLEY ROAD, LEEDS.

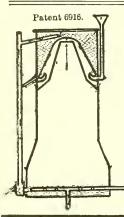
'Phone: 1635. Telegrams: "Ideas Leeds."

Designs, Copyright and Trade Mark Specialists -Advice Free.



ASIATIC PETROLEUM COLTO

St Helens Court, Great St Helens, LONDON, Ec.



for supplying and fitting complete.

HAVE YOU RECEIVED OUR

W CATALO

Of BOTTLING, TUBE- & TIN-FILLING MACHINES, MIXERS, EMULSIFIERS, ETC.

Up-to-date Plant at Low Prices. Something to meet every need.

WRITE-ROBERTS' PATENT FILLING MACHINE CO., 33 ROUNDCROFT STREET, BOLTON, ENGLAND.

BRITISH MADE

SCENT SPRINKLERS COLLAPSIBLE TUBES

Decorated Tin Boxes & Canisters

Manufactured by

The JOHN DALE Mfg. Coy., NEW SOUTHGATE, LONDON, N.



FIRST on the market and still FIRST in favour. A class product highly valued by ladies everywhere. Sells freely at a substantial profit.

Order direct or of your Wholesaler. Specify "Dr. Evan Williams," and sell the genuine article. Descriptive Price List free.

General Agents: 289 Oxford Street, London, W. Telephone: Mayfair 663,





Metal Clips for Collapsible Tubes.

These Metal Clips are made in sizes for applying to the folded ends of collapsible tubes of the following dimensions: $1\frac{3}{4}$ in., $1\frac{1}{2}$ in., 1 in., $\frac{7}{8}$ in., $\frac{3}{4}$ in., $\frac{5}{8}$ in., $\frac{1}{2}$ in., $\frac{3}{8}$ in., and $\frac{1}{4}$ in. Special sizes are also made to order.

The application of these clips to your tubes not only insures a perfect and absolutely tight seal, but also adds a finish which is exceptionally pleasing to the

COLLAPSIBLE TUBE FILLERS AND CLOSERS.

MACHINES. TABLET

DELIVERY FROM STOCK

Sole Agents for Colton's Pharmaceutical Machinery:

JOHN J. GRIFFIN & SONS, Ltd. KEMBLE STREET, KINGSWAY, LONDON, W.C.

GLOBE



DON'T MISS THIS OPPORTUNI

THIS MONTH ALL OUR LARGE MACHINES ARE CONCENTRATED SOLELY UPON

One continuous run with a special plant enables us not only to produce quantity, but the cost of production is considerably lower, hence we are able to execute orders in BULK ONLY at very advantageous prices.

SAMPLES ARE AT YOUR DISPOSAL.

KEENEST PRICES.

QUALITY UNAPPROACHABLE.

IMMEDIATE DISPATCH FROM STOCK

GLOBE Brand PINES Sell Rapidly and Always Repeat.

Write:—The Globe Tablet & M. nufacturing Co., The Globe Works, Nunhead Green, LONDON, S.E.

City Office :- 36 MARK LANE, E.C. 'Phone: CITY 8203.

116 St. John's Hill, CLAPHAM JUNCTION, LONDON, S.W.

INQUIRIES SOLICITED FOR

Drugs and Chemicals

Salicylates, Phenacetin, Phenazone, Salol Acid and Soda Benzoate, Quinine Salts, Lithium Carbonate, Magn. Sulphate, Soda Hypo., Camphor Monobrom., Hexamine, Lycopodium, &c., for prompt or early delivery.

<u>نَّمُو مِمَودِ وَوَوَمُومُ مِمَدِ وَمِعْمُ مُعِيْدُ مُعِيْدُ مِمُعُمُومُ مُعْمُومُ وَمُعُمُودُ فَ</u>

> Chlorate of Potash Chlorate of Soda Chlorate of Baryum Perchlorate of Potash Perchlorate of Ammonia

ling Agents: CHAS. MANGOLD & CO., LONDON 9 MINCING LANE. SOCIÉTÉ D'ELECTRO-CHIMIE, PARIS,

2 RUE BLANCHE.

BROMIDES

AMMONIUM SODIUM **POTASSIUM**

SILVER PROTEINATE

Inquiries invited for prompt delivery

A. DUB, 56 City Rd., LONDON, E.C.

INDEX and BUYERS' GUIDE

See pages 5 to 7.



If you have trouble in getting these, or are dissatisfied with their quality, you should try our 5-HOUR BLUE LABEL BATTERIES. Although they cost 8/4 doz. net they are well worth it.

doz. net they are well words it.

ARCHIBALD J. WRIGHT, Ltd.
61 Eden Grove, Holloway, London, N.

We can offer on Spot or Close Positions

(WHOLESALE ONLY).

Acetanilide Acetyl-Sal. Acid Bis nuth Salts **Bromides** Carbolic Acid Castor Oil Cocaine

Citric Acid Codeines Formaldehyde Hexamine Hydroquinone

Lodides Methyl Salicylate Pot. Carb. Pot. Chlorate Quinine

Salicylic Acid Salol Soda Salicylate Sulphonal Tartaric Acid

ASPIRIN Tablets, bottled or bulk.

Also Heavy Chemicals, Aniline Oil, Salts, Dyes, etc.

Inquiries Solicited.

THE KEENE COMPANY, Mfg. Chemists & American Merchants

50 Gray's Inn Road, LONDON. II Rue Condorcet, PARIS. 335 Broadway, NEW YORK.

PATTINSON'S



CARBONATE, CALCINED AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., COUNTY DURHAM, ENGLAN don Messrs. CLIFFORD CHRISTOPHERSON & CO., 21 Mincing Lane, London, E.

ILLAR & CO., Ltd., DU

Prepared in strict accordance with the Formula of the British Pharmacopoela London Agent: JAMES STIRTOR, 48 GREAT TOWER STREET EC.

LYMANS, Limited

344 St. Paul Street MONTREAL.

Correspondence solicited with Firms and Corporations desiring to extend their business in Canada.

ZORAYA Ointment &

A genuine preparation of great curative value for all Skin Complaints and kindred ailments, cuts, wounds, burns, &c. unique remedy for Piles.

333 % Profit.

CHARLESTON & CO., 8 & 9 Talbot Court, E.C.

Showcards and Window Display on Application.

BOWDLEAR

Formerly of the W. H. BOWDLEAR CO.

respectfully solicits business from any and all former correspondents, either on a commission basis or otherwise.

CRUDE REFINED and **BLEACHED**

Quotations given in £ sterling, per cwt.

220 DEVONSHIRE STREET (Room 201a), BOSTON, MASS., U.S.A.

AUTHORISED THE WAR OFFICE HAS the use of

by the Troops, after very exhaustive investigation by the R.A.M.C., on the relative values of Vermicidal substances. NON-POISONOUS. NON-INFLAMMABLE, MIXES WITH WATER. The efficacious preventative and remedy for Lice, Fleas and

Wholesale from Sole Manufacturers:-

S. BOWLEY & SON, Wellington Works, London, S.W.

Prices: 1 lb. Tins ... 1/- each 1/5 each 7 lb , ... 6/9 7/9 ... 1/1 ... poid paid Collapsible Tubes 9d. 1/1 ... 1/1 ... in U.K.









Another Cupal Success.

DEFEND YOUR

They soothe, stop irritation, strengthen and tone up the THROAT, CHEST, LUNGS and BRONCHIAL TUBES.

> HIGHLY MEDICATED CONCENTRATED

"MENTHOIDS" KEEP OUT THE COLD. INVALUABLE FOR OUR BOYS IN THE TRENCHES.

> Retail Price 3d. per Tin. Wholesale 24/- per gross

> subject to profit-sharing discount.
> Packed in handsome and neatly designed Vestal Pocket Tins.

NOTE.—Owing to the heavy demand orders will be executed in strict rotation as quickly as possible.

'PANOPEPTON' presents the entire edible substance of prime lean beef and best wheat flour in a perfectly soluble, diffusible, and absorbable form. It is at once a grateful stimulant and food.

For an adult the usual portion should be a dessertspoonful to a tablespoonful several times a day and at bedtime.

Supplied in 6-oz. and 12-oz. bottles at 27/- and 46/- per doz.

Pepsini Concentrated (Fairchild) Glycerinum

50% stronger than the product of the 1914 B.P.

To make 24 oz. GLYCERINUM PEPSINI B.P.

R Glycerinum Pepsini, Concentrated (Fairchild) 16 oz. Acid Hydrochloric 40 minim. 4 oz. 6 drms. Glycerin Distilled water, sufficient to produce ... 24 oz.

Supplied in 4 oz. and 16 oz. (fluid measure) at 16/- and 48/- per doz., and in Winchester Quarts at 18/- each.

These prices are subject to B. W. & Co.'s Terms.

GLYCERINUM PEPSINI CONCENTRATED (FAIRCHILD) may be obtained from all Wholesalers.

Originated and Manufactured by FAIRCHILD BROS. & FOSTER, New York | BURROUGHS WELLCOME & CO.,

Agents for Europe, Asia, Africa and Australasia: And 64/65 Holborn Viaduct, London, E.C. LONDON, SYDNEY AND CAPE TOWN.



Weekly Journal of Pharmacy and of the Chemical and Drug Trades ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the ing journal addressing the Chemical and Drug trades in the British Empire a other countries in the Old and New Worlds. It is the official Journal of etem Chemists' Societies in Australia, Ireland, New Zealand, South Africa the West Indies.

Subscription Rates.

Twelve Shillings and Sixpence a year in advance, post free to any part of the vid. including a copy of The Chemist and Druggist Diary next published. Scriptions may begin any month. Single Copy, 6d.; Summer or Winter Postal orders and cheques to be crossed "Martin's Ik (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, e agenda une fois par an, 12s. 6d., franco.

Цена годового абонемента: Газета ежене вльно и Дневникъ рь въ годъ 12 шиллинга 6 пенсъ съ пересылкой.

Precio de suscricion annual: el periodico una vez por semana, y agenda una vez por anno 12s. 6d., franco.

rerms for advertising in THE CHEMIST AND DRUGGIST can be o ined on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C. egrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines). 3ranches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: No. 7 (Series No. 1881), Vol. 88.

	PAGE	PAGE
	-ths 43	Information Department 44
	itish Pharmacopæia Notes 41	Insurance Act Dispensing 50
	siness Changes 44	1rish News 37
	emical Society 35	Legal Reports 42
-	ning Events 44	Marriages 43
-	rner for Students 34	New Books 48
1	respondence:	New Companies and Com-
	crespondence : Letters	pany News 43
	ubscribers' Symposium 59	Observations and Reflections 45
	discellaneous Inquiries 59	Personalities 44
	aths 43	Retrospect 60
		Scottish News 38
	Itorial Articles: Lilitary Service 46	Society of Chemical Industry 41
	lcohol 47	Society of Public Analysts 54
	oreign Trade 47	South African News 39
	votes 48	Trade-marks 40
	glish News 36	Trade Notes
	ropean War 33	Trade Report55
3	ench News 39	Who Said This? 60
1	zette 43	Wills 44
1	rman News 39	Winter Session 49

Summary.

'he report on the "Corner for Students" analyses begins

ome recollections of Mr. Weddell are contributed in a ler on p. 58.

Ve answer in an editorial article a number of inquiries v have received regarding military service (p. 46).

n Germany a census of the stocks of drugs is taking 1 ce; lard may not be used in making ointments (p. 39).

'he grievances of individual insurances against air-raids at the preferential railway rates given to foreign traders among the observations of "Xrayser II." (p. 45).

he report of the Society of Chemical Industry (p. 41) cls with the use of enzymes and yeast in the analysis of srches. There are also reports of meetings of the Society (Public Analysts (p. 54) and the Chemical Society (p. 35).

he sale of morphine lamels without the observance of tormalities of the Pharmacy Acts has resulted in the eviction of Harrods, Ltd., at the Westminster Police (art (p. 42). Savory & Moore, Ltd., were fined for a sular offence at Marlborough Police Court on Thursday.

he bulk of market-values shows an upward tendency, tse including arrowroot, Cape aloes, bichromates, cassia laea, citric acid, cod-liver oil, dill-seed, dragon's-blood, emi, Cochin ginger, glucose, honey, myrrh, and shellac; the easier side are balsam tolu, Cartagena ipecacuanha, nine and santonin (n. 55) dnine, and santonin (p. 55).

European War.

A Year Ago To-day.

(War News from the "C. & D.," February 13, 1915.)

The twenty-first list in the Pharmaceutical Roll of Honour was published, and it was longer than usual. Sir Lauder Brunton's and Lieutenant-Colonel Monckton Copeman's recommendations for combating trench vermin were given. Belgian refugee pharmacists were still being assisted to obtain employment in this country, and we chronicled the progress of the Belgian Doctors' and Pharmacists' Relief Fund. The difficulties of sending goods to Russia had increased owing to inadequate facilities in Sweden for the traffic. We published experience of the war from correspondents in Rhodesia and Flanders.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.-Cicero. SEVENTY-THIRD LIST.

Henry, Private Walter (formerly with Mr. Woodside, Ph.C., Ballymena, co. Antrim), Royal Engineers.
Hughes, Lieutenant H. (Navy), late of Twickenham and

Bath.

Bath.

LORD, Private ROBERT (lately assistant with Mr. W. E. Mason, pharmacist, Brixton), 25th London (Cyclists).

ORR, GEORGE, pharmacist (lately assistant with Mr. J. Macintyre, North Berwick), R.A.M.C.

REID, Private Hugh (lately apprentice with Mr. H. Lancashire, Ph.C., Ballymena, co. Antrim), 20th Royal Irish

From the staff of Mr. Walter Aston, Ph.C., Worthing, the following have joined the Colours, and are either on active service or enrolled in the Army Reserve: Norman Aston, Frank Simmons, Cyril Henry, Bernard E. Martin, Harry Hoad, F. J. Knowles, Harry Budd, and F. Day.

Export Notices.

AUSTRIA-HUNGARY.—According to a Decree of January 14 the following have been added to the list of articles the exportation of which from Austria-Hungary is prohibited: All compounds of sulphur, including sulphates, sulphides, and hyposulphites, saffron, and different fruits, such as

ITALY.—The Italian Minister of Finance has been authorised to allow the duty-free importation into Italy up to Juno 30, 1916, of tea-residues to be employed in the manufacture of caffeine.

NETHERLANDS.—A Royal Decree of January 8 prohibits the exportation of rubber, guttapercha, and articles thereof from Holland.

Russia.—The Board of Trade are in receipt, through the Foreign Office, of information to the effect that, according to the official "Trade Gazette" of Petrograd for December 23 (January 5), the Minister of Finance has prohibited the exportation, vià all-frontiers of the Russian Empire, of aniline dyes and dyeing-substances of all kinds, except mineral and earth dyes and oxide of iron. Exemptions may, however, be accorded by the Minister of Finance in favour of Allied and friendly countries favour of Allied and friendly countries

Trading with the Enemy Amendment Act, 1916.

The Board of Trade have appointed Mr. Ernest R. Moon C.B., K.C. (Chairman), the Hon. John D. Fitz-Gerald, K.C., Sir George Croydon Marks, M.P., and Mr. Gershom Stewart, M.P., to be a Committee to advise them on matters arising under the Trading with the Enemy Amendment Act, 1916. The Secretary to the Committee is Mr. W. P. Bowyer. All communications should be addressed to the Board of Trade, 38-39 Parliament Street, London, S.W.

Enemy Agents Abroad.

The Board of Trade call the attention of shipowners and merehants to the numerous cases of fire and explosion which merehants to the numerous cases of fire and explosion which have occurred under circumstances pointing to foul play, not only on British ships, but also on neutral ships carrying cargoes on British account or to the United Kingdom. Great ingenuity is used by our enemy agents, and in one instance it was found that wood used for packing-purposes had been so treated as to burst into flame under the slightest friction. Shipowners and merchants, and all persons interested in the shipment of cargo at foreign ports, are advised to satisfy themselves that no firm in which there is any enemy interest shall have anything to do with the handling of the ship or cargo in which they are interested.

Notice to Importers.

Notice to Importers.

The Board of Customs and Excise hereby give notice as follows: I. In pursuance of their powers in that behalf, the Board of Customs and Excise have directed that, on and after February 9, 1916, the importer of any goods, or his agent, may be required to insert in the form used for making entry of the goods on importation, the name and address of the consignor of the goods as well as the name and address of the importer of the goods. For the purpose of this requirement the consignor is the last owner at the place from which the goods were procured; and the importer is the person by whom the goods were so procured from the consignor. II. Save as excepted in Paragraph III. of this notice, the requirement set forth in Paragraph I. will extend to all imported goods, whether liable to duties of Customs or not, and whether entered for home use or for warehousing. III. The requirement set forth in Paragraph I. will not for the present be enforced as respects imported goods consigned from British Possessions or Protectorates. The Board of Customs and Excise may nevertheless at any time enforce the requirement as set forth in Paragraph I. as respects any or all of the cases now excepted.

Warning to Exporters.

Warning to Exporters.

The Board of Trade warn exporters of articles to Switzerland, the exportation of which from the United Kingdom to that country is not prohibited, that, although a licence for such goods is not required, they should take every precaution to ascertain that the consignee is not a person or house of enemy nationality domiciled in Switzerland, since the fact of such enemy destination might entail a refusal by the French railway company to carry the goods, owing to the French law which prohibits all transactions with enemy subjects wherever domiciled. This notice does not apply to any non-prohibited articles which, by virtue of the Royal Proclamation of December 22, are required to be consigned to the Société Suisse de Surveillance Economique. Suisse de Surveillance Economique.

Personalia.

CORPORAL B. S. CLARKE, R.A.M.C., 2/3rd West Riding, has been gazetted second-lieutenant in the 3/4th York and Lancaster (T.F.) Regiment. He was apprenticed to Mr. J. Preston, Sheffield.

PRIVATE G. H. NEEDHAM, R.A.M.C., 1/3rd West Riding, has just been awarded the D.C.M. He was apprenticed to Mr. F. G. Roebuck, Millhouses, Sheffield, and was afterwards assistant to Mr. J. Preston, Sheffield.

THE following members of the staff of Taylors' Drug Co., Ltd., who were on active service, have lost their lives in the war: Private D. Denby (Bridlington), Private J. Cummings (Hull), and Private Dobby (Leeds). The following have also been wounded or contracted illnesses on active service: Lance-Corporal J. Mills (Middlesbrough), Acting-Sergeant Pimlott (Leeds), Private E. N. Mitchell (Harrogate), Private E. Attwood (Middlesbrough), and Sergeant Lindley (Leeds).

Miscellaneous.

Belgian Doctors' and Pharmacists' Relief Fund.—The following has been received during the past week: Australasian Pharmaceutical Conference (final contribution), 1271.

ACETONE has been classified as an important constituent of military explosives, and dealings in it are now subject to the restrictions imposed under Defence of the Realm Regulation 30 A.

ARMENIAN REFUGEES.—Miss Emily J. Robinson, 35A Elsham Road, Kensington, London, W., is appealing for quinine, disinfectants, and sprays for the use of the American Relief Commission at Tiflis, which organisation is succouring Armenian refugees.

AIR-RAID DAMAGE.—A meeting of representatives of local authorities was held at the Mansion House, London, E.C., under the chairmanship of the Lord Mayor, to urge upon the Government the desirability of making a national charge of damage done by hostile aircraft. It is hoped to send a deputation to the President of the Board of Trade.

Consignment to Consuls.—The attention of the Board of Trade has been called to a practice on the part of shippers of consigning their goods to British Consular officers in Greece and sending to them bills of lading and invoices for delivery to third parties, and even requesting them to make arrangements for transhipment where necessary. It is impossible for these officers, who are already overburdened with other duties, to undertake work of this character, and shippers are accordingly warned not to consign their goods to them unless expressly so authorised or directed by H.M. Government. CONSIGNMENT TO CONSULS.—The attention of the Board of

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, le Chemist and Druggist,' 42 Cannon Street, London, E.C.

Report on the January Analytical Exercise,

The powder distributed to students on January 11 ntained 3 parts, by weight, of potassium aluminium sult to (potassium alum), 1 part of zinc hydroxycarbonate, and 1 part of magnesium hydroxycarbonate. The calcued composition of such a mixture is:

Al	 	 	 3.4
$\mathbf{Z}\mathbf{n}$	 	 	 11.5
$_{\rm Mg}$	 	 	 5.1
K	 	 	 5.0
SO_4	 	 • • •	24.3
	 	 	 12.9
$_{\mathrm{OH}}$	 ***	 	
H_2O	 	 	 32.1

The powder also contained as impurity a well-maid trace of manganese, and it gave faint indications of tree of iron and chlorine—both of the latter being little ne than recognisable.

Samples of the powder were distributed to fifty-estudents, and thirty-five reports were sent in for examinating students, and thirty-ne reports were sent in for examinating. Zinc and the sulphuric-acid radical were detected by lour correspondents. The failures in the detection of a other main constituents were: Aluminum, 3; magnesi, 15; potassium, 2; carbonic-acid radical, 1. Seven studisfailed to observe the copious evolution of water when a powder was heated in a dry test-tube, while only for reported the manganese which was present as a slit incountry.

impurity.
This exercise was designed as a non-phosphate mixt which should resemble the December phosphate mixture so far as the metallic radicals—except ammonium—w concerned. The absence of the phosphoric-acid rad concerned. The absence of the phosphoric-acid rad materially simplified the present analysis and, as a rest the proportion of high scores has risen. Among the students who have not obtained ninety marks or over most conspicuous feature is the very frequent failure detect magnesium. The proportion of this metal preswas not small, and with due precautions it should have escaped detection. It is usually advisable to conctrate by evaporation the filtrate which is to be tested magnesium by means of sodium or ammonium phospha and due time should be allowed for the separation the precipitate. It is, indeed, often advantageous evaporate the filtrate to dryness and ignite to dest ammonium salts, next to dissolve the residue in water a one or two drops of dilute hydrochloric acid, filtering necessary, and then to add ammonium chloride, ammon in slight excess, and sodium or ammonium phosphate those parts of the inside of the containing vessel which

rapid deposition of ammonium magnesium phosphate those parts of the inside of the containing vessel which have been lightly rubbed, below the level of the liquility aglass rod, is a valuable aid in arriving at a clusion when magnesium is actually present.

The manganese present as impurity was easily detect when an appropriate test was applied. Fusion of the powder with sodium carbonate and potassium nitrate platinum foil or a looped platinum wire gave a pale the distinct green manganate coloration, while the test boiling the powder with lead peroxide and dilute nitric at gave a solution with an unmistakable permanganate coloration. Few students applied either of these tests.

The chloride commonly reported as yielding a curdy property of the powder actually contained was barely recognisab. Ordinary sodium carbonate nearly always contains chlorid hence the sample to be used in testing for acid radical colority of the powder and the test and the little for the test and the powder and the test and the test and the test and the containing for acid radical colority of the test and the test and the containing for acid radical colority of the test and the containing test and the coloridate colority of the coloridate coloridates and the coloridate coloridates and the coloridates are coloridated to the coloridates and the coloridates are coloridates.

Ordinary sodium carbonate nearly always contains chloric hence the sample to be used in testing for acid radica should itself be tested, and rejected if not chloride-free. In examining an unknown substance for mere traces iron, it is often sufficient (as in the present instance) dissolve the substance in dilute nitric acid and to ac potassium thiocyanate to the solution, which should cold. When a solution of potassium ferrocyanide is ployed as a test for traces of iron, it is essential that it solution should be freshly prepared, and that the acid liqu to which it is added should be cold. Several students report considerable traces of iron on the strength of indication which must have been mainly due to the effects of aciliquids on old ferrocyanide solutions. liquids on old ferrocyanide solutions.

tly select.

PRIZES.

he First Prize for the best analysis has been awarded to SYDNEY W. HESTER, 19 Church Road, Crumpsall, Man-

he Second Prize has been awarded to

WILLIAM JONES, 191 Wilmslow Road, Rusholme, Manchester.

irst Prize.-Any scientific book that is published at a irst Prize.—Any scientific book that is published at a p e not greatly exceeding half-a-guinea may be taken as a fi prize.—Any scientific book which is sold for about shillings may be taken as a second prize. he students to whom prizes are awarded are requested to we at once to the Publisher naming the book or books to select.

MARKS AWARDED FOR ANALYSES.

MARKS II WARDED TOW IMABIECES.								
Correspon	adents	who a	re	unqualified :				
W. Heste	r (1st	prize)	99	Altior				
W. Jones	(2nd	prize)	98	Neroli				
				Simplicitas	II.			83
machie			97					
wick			96					
rum			95					
Brindle			94	Rufus				
m			94					
			94	Catechu				
I. W			94	Kainite				
E P			94					
ualified			94					
ex			93					
H. G			92					
'x			89	R. M.				
Marsh			88	Xcnophen				62
nium			85					
	Correspon W. Heste W. Jones Iadonna Inachie Wick Tum Brindle M OTINE I. W. E. P. Iualified Ex Marsh	Correspondents W. Hester (1st W. Jones (2nd ladonna nachie wick rum Brindle m orine I. W E. P pualified ex H. G Marsh	Correspondents who a W. Hester (1st prize) W. Jones (2nd prize) ladonna nachie wick rum Brindle m orine I. W E. P pualified ex H. G Marsh	Correspondents who are with two are with the control of th	Correspondents who are unqualified: W. Hester (1st prize) 99 W. Jones (2nd prize) 98 Iadonna 97 nachie 97 wick 96 rum 95 Brindle 94 m 94 orine 94 I. W. 94 I. W. 94 E P. 94 pualified 94 pushist 0 cx 93 Drofflic A. Scott X 89 Marsh 88 Xcnophen	Correspondents who are unqualified: W. Hester (1st prize) 99 Altior W. Jones (2nd prize) 98 Altior Iadonna 97 nachie 97 wick 96 primm 95 Brindle 94 m 94 orine 94 I. W. 94 I. W. 94 Litmus pualified 94 yub-Dabs ex 93 H. G. 92 A. Scott x 89 Marsh 88	Correspondents who are unqualified: W. Hester (1st prize) 99 Altor W. Jones (2nd prize) 98 Altor Iadonna 97 simplicitas II. Simplicitas II. victory 96 prime 95 prindle 94 m 94 orine 94 I. W. 94 I. W. 94 I. W. 94 Litmus Litmus pualified 94 Yub-Dabs ex 93 Drofflic X 89 Marsh 88 Xcnophen	Correspondents who are unqualified: W. Hester (1st prize) 99 Altor W. Jones (2nd prize) 98 Neroli ladonna 97 nachie 97 wick 96 p. Wilkio rum 95 Brindle 94 m 94 orine 94 I. W. 94 I. W. 94 Litmus pualified 94 yul-Dabs ex 93 Drofflic x 89 Marsh 88 Xcnophen

Correspondents who are qualified: 85 | Nitrax

TO CORRESPONDENTS.

RRUM.—It is not sufficient merely to evaporate to dryne the filtrate which may contain potassium: the dry re ue should be ignited to destroy ammonium salts, since th latter may yield a precipitate with sodium bitartrate (o artaric acid) which resembles that produced by a potas-

BRINDLE.—It is remarkable that you failed to obtain the manganate reaction for manganese, since that is the modelicate dry-way test for the metal, and we found no disulty in obtaining very distinct indications.

**QUALIFIED.—Having obtained a faint indication of mangase in the borax-bead test, it is unfortunate that you did not apply the more delicate dry-way test by fusion with so m carbonate and potassium nitrate. No advantage we gained in this instance by analysing separately the agous and the hydrochloric-acid solutions derived from the priginal powder. The latter of these solutions was too su narily treated in your report.

H. G.—The calcium you reported must have come from the water or impure reagents: we failed to detect any in the bowder.

th bowder.

vx.-We failed to obtain any reactions resembling those of loxalate either with calcium chloride or with potassium pe anganate, and we are at a loss to understand how you ob ned the positive results you report. A small quantity of he original powder gave a very distinct reaction for meganese when heated with dilute nitric acid and lead

MARSH.—The well-marked reactions for sodium and for irc must have been due to the presence of these substances

ire must have been due to the presence of these substances as invities in some of the reagents you employed.

ROLL.—We were not able to confirm the presence of the tra of a nitrate which you and several other correspondents reported.

RELICITAS II.—Note that the formation of a sulphide by hear an unknown substance on charcoal does not prove the presence of a sulphate: it only proves the presence of sulfur either free or in some form of combination. See als the second sentence of the reply to "Unqualified."

CEER.—The picric-acid test for potassium is much inform in delicacy to Carnot's test (sodium bismuth thiosul ate used in alcohol solution).

TORY.—Apply the ethyl-acetate test for acetates to mirres containing an acetate in varying proportions, and not at all, so as to ascertain what to expect in unknown sulpances.

sulances.

VLISIT.—We did not succeed in getting indications of an nmonium salt by using the tests you describe. See in the eneral remarks the observations on the use of potassiu ferrocyanide as a test for iron.

CATECRU.—The chlorine evolved when the powder was heated with sulphuric acid and manganese dioxide must have been due to chloride present as impurity in the latter

YCB-DUBS.—Try to get rid of the idea that a chloride can yield chlorino when heated with sulphuric acid: in the absence of an oxidising-agent, only hydrochloric acid can

DROFFLIC.—The method you adopted of boiling the powder with water and sodium carbonate, filtering, testing the filtrate for acid radicals, and dissolving the precipitate in filtrate for acid radicals, and dissolving the precipitate in hydrochloric acid and testing the resulting solution for metallic radicals, is not to be commended for routine procedure: in any case it requires to be employed with wider knowledge of its essential features than you have brought to bear upon it. Thus you tested for potassium (and you report finding it) in the hydrochloric-acid solution, where it should not have been if the method had been properly carried out, and you omitted to test for it in the original sodium-carbonate filtrate, where, under proper conditions of working, it ought to have been.

A. Scott and R. M.—The phosphoric-acid radical was not present, but, if it had been, your method of carrying out the "acetate" separation would have failed hopelessly, since the sodium acetate and acetic acid should have been added before the ferric chloride, not after it, as it appears from your report that you suppose.

from your report that you suppose.

XENOPHEN.—Examine the behaviour of your solution of ammonium molybdate with solutions containing, and with others free from, the phosphoric-acid radical.

Azo.—See the first sentence of the reply to "Simplicitas II."

Chemical Society.

A MEETING was held on February 3 at Burlington House, Piccadilly, London, W. The chair was occupied by the President (Dr. Alexander Scott, F.R.S.), and there was a very good attendance. Professor W. H. Bragg, F.R.S., delivered a most interesting lecture on Recent Work on X Rays and Crystals and their Bearing on Chemistry. The basis of the work was laid by Van Laver when he discovered that crystals could behave towards x rays as a diffraction grating does towards ordinary Laver when he discovered that crystals could behave towards x rays as a diffraction grating does towards ordinary light. The subject really resolves itself into the study of the reflection of homogeneous rays from a series of parallel planes. In the special case the rays are those emitted from a rhodium anti-kathode in an x-ray bulb. Further, it is based on the simplest ideas of interference. The actual planes which reflect are the planes of atoms in a crystal, and it is found that the distance between these planes is of the same order as the wave-length of the x rays. Thus the successive reflections come from planes, the distance between the reflections being one wave-length. This effect is not the same as the interference of ordinary light since the the successive reflections come from planes, the distance between the reflections being one wave-length. This effect is not the same as the interference of ordinary light, since the positions of the various reflections are definite and may be accurately measured. The measurement is carried out by allowing the reflected rays to pass into a tube of methyl bromide, and the electricity developed by the resulting ionisation is detected by means of an electroscope observed with a microscope. Using this instrument it is possible to measure the angle at which the different planes reflect and therefrom calculate the distance between the planes. By careful consideration of the various ways in which the atoms can arrange themselves as a crystal, taking into consideration the measurements obtained, it is found that they dispose themselves in the same form as would a pilo of shot. A curious difference is found in some isomorphous substances. Thus in the case of potassium and sodium chloride, although the measurements show that both crystals have the same symmetry, yet in the case of potassium chloride the intensity of the reflections from the various planes is the same, while with sodium chloride strong reflections alternate with weak. The explanation of this is found in the fact that the amount of rays reflected depends on the weight of the atoms. Now, while both potassium and chlorine are approximately equal in weight, sodium and chlorine are approximately equal in weight, sodium and chlorine approximately equal in weight, sodium and chlorine approximately equal in weight, sodium and chlorine are approximately equal in the fact that the atoms are not at rest, since when a crystal is warmed the intensity of the reflection diminishes owing to the increas reflecting planes.

RHEOSTAIS, which before the war were mostly imported from Germany to this country, are now being made here of first-class material and workmanship of a high grade.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Duties of Doctors.

The report adopted by the Royal College of Physicians as to the duties of medical practitioners in cases of criminal abortion was printed in the C. & D., July 31, 1915, p. 128. Since then the College has been advised on the legal question as follows:

1. That the medical practitioner is under no legal obligation either to urge the patient to make a statement or, if she refuses to do so, to take any further action.

2. That when a patient who is dangerously ill consents to give evidence her statement may be taken in one of the following

evidence her statement may be taken in one of the following ways:

(a) A magistrate may visit her to receive her deposition on oath or affirmation. Even if criminal proceedings have not already been instituted, her deposition will be admissible in evidence in the event of her death, provided that reasonable written notice of the intention to take her statement was served on the accused person, and he or his legal adviser had full opportunity of cross-examining.

(b) If the patient has an unqualified belief that she will shortly die, and only in these circumstances, her dying declaration will be admissible. Such a declaration may be made to the medical practitioner or to any other person. It need not be in writing, and, if reduced into writing it need not be signed by the patient nor witnessed by any other person, though it is desirable that both should be done, or that if the patient is unable to sign she should make her mark. If possible, the declaration should be in the actual words of the patient, and if questions are put, the questions and answers should both he given, but this is not essential. If the declaration cannot there and then be reduced into writing it is desirable that the person to whom it is made should make a complete note of it as soon as possible. as possible.

Sale of Food and Drugs Acts.

In the borough of Southwark during the last twenty-two samples of drugs were analysed, all certified as genuine.

The Deptford Borough Council has suggested to the medical officer that the maximum number of samples for analysis taken yearly should not exceed 400. The appointment of Mr. H. G. Harrison as public analyst for Deptford has been approved by the L.G.B.

The Salford borough analyst reports that he has examined 281 samples, under the Sale of Food and Drugs Acts, including seven samples of ammoniated tincture of quinine, five of castor oil, three of glycerin, and one of camphorated oil. None of the drugs was adulterated.

The report of the public analysts for the East Riding for the report of the public analysis for the East Riding for the quarter ended December 31 last shows that five samples were taken of carbonate of soda, two of iodine, four of paregoric, one of sweet nitre, four of turpentine, two of tincture of quinine. One of the samples of sweet nitre was found to be adulterated, and the seller was cautioned.

Wine and Spirit Licences.

The wine-licence attached to the business of Mr. Fredk. Harvey, chemist and druggist, 1 Claremont Road, Surbiton, has been transferred to Mr. Jas. Green.

At Salford Licensing Sessions on February 7, an applica-tion for a wine-licence for Mr. James Shand, chemist and druggist, 301 Regent Road, was refused.

At Widnes Brewster Sessions and at Southport Sessions on February 3, it was reported that the wine-licences held by Mr. John B. Foggitt, Ph.C., had been allowed to lapse. At Manchester on February 3, Sir Wm. Cobbett applied, on behalf of Mr. Chas. H. Griffiths, chemist and druggist, Gorton, for a sweets-licence. Mr. Batty opposed the application, and it was refused.

The Reading Licensing Bench, on February 3, granted an off spirit-licence to Bradley & Bliss, wholesale chemists, 6 London Street, on an undertaking to sell spirits only for medicinal purposes and to specified trades.

Bath.

The Derby armlets are fairly conspicuous among the pharmacists and assistants in Bath.

Mr. Thomas Wills, Clerk to the Insurance Committee, met the chemists on the panel recently, and exhaustively described the new arrangements for sending the scripts to the pricing establishment, and method of settling the

Field operations of the Somerset Volunteer Regiment (Bath Corps) on the historical Claverton Down were carried out on a recent Sunday. In the array of smartly uniformed men were at least three local pharmacists, Messrs. Wilson, Hawes, and Hallett, the last-named with a corporal's stripe. Birmingham.

Mr. and Mrs. Wilfred Hill have this week presented upright grand pianoforte to the First Southern Gene Hospital, Edghaston.

The lady dispenser is gradually but surely finding h self behind the dispensing-counter, and it is reported the most conservative of the craft that the lady assist is acquitting herself very well indeed. A chemist with an eye to business has put the followi

card in his window:

The Corporation will look after your lights, you see to y liver. Our liver-pills are—well, they are; and only 5d. per box Sir Joseph Mason, who founded Mason College, to nucleus of Birmingham University, was many years a succession of the Fesser was those of his Fesser was the contract of the fesser was the c invited by Krupp to become a partner of his Essen wor states the "Post." Sir Joseph, it is also pointed out I the Cannon King on his legs by paying him 10,000. one of his important inventions.

Liverpool.

The "trench comforts" devised and manufactured Hanover Street are being displayed in the windows of bo pharmacists and groeers, finding a ready sale.

Mr. S. Hardy, chemist and druggist, St. John's Lane, extending his premises, by which he will command t important junction of the Old Haymarket, Victoria Stre and Manchester Street.

As so few of the shops which kept open comparative late followed the example of the chemists and druggists dropping the window-lights, an order had to be issued February 8 prohibiting all window-lights after 6.30 r. The result was to plunge the city in a darkness that could be felt. In the event of the arrival of Zeppelins, it was added in the official potice that all gas and electricity added in the official notice that all gas and electric-lig supplies will be cut off at the works.

Sheffield.

Messrs. Watsons, 84 High Street, have issued a twenty-fo page sale-list of cameras, lenses, enlargers, and phof graphic sundries. All goods are marked below cost.

Out of a normal staff of twelve the business of Mr. J Preston, Barker's Pool, Sheffield, has furnished seven its members to the Army by direct enlistments. The remaining staff who are eligible have attested under the Der recruiting scheme.

Mr. Curry, superintendent representative of Burroug Wellcome & Co., has made a tour of the Sheffield distri-regarding the supply of kharvasan. The demand of the Government having been met, the supply for ordinary cu tomers is now ample.

Mr. C. F. Carr (Fitzhugh & Carr, Nottingham), late Vic President of the Sheffield Pharmaceutical Society, hattested under Lord Derby's scheme, and is at presedrilling until his group is reached. His brother, late Normanton, has taken over the management of his business.

When the chemists some little time ago asked for a corpulsory closing order, some doubt was felt that mixed sho in the working-class areas would still sell drugs after hour This fear has been removed, as the City Council has decide to ask for closing orders for fifty-five classes of trader which covers all drug-retailers.

Some junior pharmacists appearing in the later group called up under Lord Derby's scheme have been notified join their regiment for service. Inquiries have shown that this is due to a clerical error. Anyone receiving such notice should forward it to the Chief Recruiting Officer with protection of his case and the results of the methants. with particulars of his case, and there is no doubt the matte will be rectified.

Through the illness of Mr. B. Lancaster, an appointment has had to be made of chief of the joint staff for pricing prescriptions. The advertisement stated that the pharmal ceutical qualification would be a recommendation, so the the local chemists are disappointed at the appointment (a non-pharmacist. Mr. Appleton brought the matter before the Sheffield Insurance Committee at its last meeting, by gained no satisfaction.

Miscellaneous.

CONTRACTS.—The Merthyr Corporation Health Committee have divided their contract for the supply of disinfectan between Mr. V. A. Wills and Mr. R. R. Davies, Merthy

BOTTLE-COLLECTIONS.—The method that has been adopte in Burnley schools for assisting the Soldiers' Fund is to collect medicine-bottles and sell them to chemists for the benefit of the fund.

OPIUM EXPORT.—At East Ham Police Court on February 8, a Chinese subject was fined 50%, or three month imprisonment, for attempting to take 6 lb. of opium ou of the United Kingdom.

FENCES AGAINST THE PERSON ACT.—A drug-store protor, named E. A. Middleton, was charged at Nottingh with using an instrument for an illegal purpose, and cing the death of a young woman. Accused was re-

NTITOXIN-SUPPLY.—At Hull City Council meeting on Fruary 3, it was reported that a supply of antitoxin is at the office of the medical officer of health. This w stated in connection with the closing order, which it was the gift might eause inconvenience if antitoxin were requed in an urgent case.

ulway Concestion.—The Ministry of Munitions has mer consideration the growing problem of the congestion of affic on the railways, and has issued instructions regardin the clearing of wagons, with a view to quicker handli and carriage of goods. The pooling of railway stocks hand yet been adopted.

LE OF COCAINE. - At Folkestone on February 4, Horace Dais Kingsley and Rose Edwards were charged, under th Defence of the Realm Act, with selling to Private Henry W.h, of the "Black Devils," a Canadian regiment, thirty or orty packets of eocaine. The prisoners were remanded to the ease to be taken up by the Director of Public P ecutions.

SAULT CHARGE.—At Otley Police Court last week, Mr. ar Robinson, Ph.C., Baildon, was summoned by Edwin J. licholas, a local commercial traveller, for assault. Mr. Rinson issued a cross-summons against the traveller. Dindant called at the traveller's house to collect a debt, ar upon a refusal to pay he struck the traveller in self-de ace. Both summonses were dismissed.

SDICAL OFFICER'S SALARY.—The Epsom Guardians have ha an application from Dr. Pain, medical officer for the Le herhead district, for an increase in the amount allowed hi for drugs, owing to the present high cost of many drs. The discussion was adjourned to enable Dr. Pain to fush particulars of his expenditure on drugs and of the re ive number of patients now and at the time when he witamonisted. we appointed.

we appointed.

LE OF FIREARMS.—At Worksop, on February 3, Mr. J.H. Dixon, chemist and druggist, of Bridge Street, Wksop, was summoned under the Pistols Act, 1903, for se ig a revolver by retail to a person not holding a gunlice. The sale took place to an employé named Hart, an Mr. E. G. Warburton, for the defence, urged that the Adwas never intended to apply to private transactions of the kind. The Bench, however, inflicted a fine of 10s.

(AL-SAVER FRAUD.—At Blackpool on February 4, James Dice and Mary Ann Lynch were summoned for obtaining mely by false pretences. Defendants visited towns in La ashire selling packets of a mixture repated to be a consaver. The price was $7\frac{1}{2}d$. per packet. On analysis the nixture was found to be common table-salt coloured will venetian red. Defendants also falsely represented the Boots, Ltd., were sole agents in Blackpool. Tho wo m was fined 5l. and the man 40s.

LSONINGS.—Three deaths from poisoning have been

ISONINGS.—Three deaths from poisoning have been recided since our last issue. The poisons employed were op a, ammonia, and "wintergreen." In the last-named cas methyl salicylate was probably the poison involved, as the eport which has reached us of the Coroner's inquest at Weiesbury mentions that it was contained in a rheumatic-lin ent. The ammonia was taken by an intoxicated wo an at Romford, and the opium was taken in overdoso by I Ilkeston woman of seventy-seven, who had been for see an onium-eater.

5ed an opium-eater.

The Board of Referees (Finance (N. 2) Act, 1915) appointed to consider appeals and applicates in respect of the excess-profits duty, under the manship of Mr. H. E. Duke, K.C., M.P., have taken off at 135 Strand, London, W.C., and will consider any applies and applications which may be made to them the ghost the Commissioners of Inland Revenue. Correspondence should be addressed to the Registrar, Board of Referees (Finance (No. 2) Act, 1915), the Refuge Assurance builting 133 Strand, W.C.

73 LATE LORD BURNHAM.—At an adjourned (Christmas) Qu terly Court of the Spectacle-makers' Company, held on Bel 1ary 1, it was resolved unanimously:

Bellary I, it was resolved unanimously:

To this Court desires to record its deepest regret at the great loss; has recently sustained in the lamented death of its muchesticed and valued colleague Past-Master the Right Hon. Lord Bullam, K.C.V.O., who as an apprentice, a freeman, a liveryman, a sistant, a warden, and master, has been so agreeably connect with this Guild for more than half a century, and who, dully years and honours, has now died at the ripe age of eightwo, universally lamented; and that a copy of this resolution be transmitted to his son, Colonel the Right Hon. Lord Bullam, M.A.

L.G.B. Report.—A supplement to the forty-fourth annual report of the Local Government Board has been issued this week, consisting of the report of the medical officer for the year ended March 31, 1915. It is a record of the medical activities of the Board, and this time records several instances of co-operation with the military authorities in connection with camps in this country. It is stated that the Board gave a grant to Mr. Hindle and Professor Nuttall in regard to their investigation at the Quick Laboratory at Cambridge into the life-history of the Pediculus corporis. The appendix contains reports on special medical corporis. The appendix contains reports on special medical subjects, including a preliminary report by Dr. F. W. Twort on infantile diarrhea.

Twort on infantile diarrhea.

ROYAL INSTITUTION.—At the meeting held on February 4, Professor W. Bateson gave an address on the progress of Mendelism during the past fifteen years. It is about sixteen years since the rediscovery and appreciation of Mendel's papers. The theory has thrown much light on problems of anthropology, and has found practical application in horticulture. The newest branch of inquiry is that in which it is found that an organism has several factors in it that have the same effect. Thus the colour of red wheat is found to be due to more than one Mendelian character, and an explanation of the fact that the offspring of mulattoes are never white is that there are a number of blackness factors. A close linkage of these factors is assumed. An interesting part of the discourse dealt with the transmission of colour-blindness. This condition is very rare in women, but is transmitted from father to son. An investigation which is taking place in the United States on diptera with red eyes has helped to an understanding of the matter from the Mendelian point of view.

Poison-licences.—The Oxford City Council has renewed

Mendelian point of view.

Poison-licences.—The Oxford City Council has renewed for a year the poison-licences held by Mr. George Coggins Trinder, The Market (manager to Harris & Matthews); Mr. Robert Kent Tucker, George Street; Mr. Herbert Davis Smith. George Street (manager to Mr. R. K. Tucker); and Mr. Arthur Rowles, of Market Street.—Mr. Edward James Greenfield, ironmonger, The Square, Storrington (Sussex), has applied to the County Council for a licence to sell agricultural and horticultural poisons.—The Burton-on-Trent Town Council has renewed the licences of M. Morris and G. M. Gibbs.—The Hertfordshiro County Council has renewed the licence of A. McMullen & Co., Ltd., Bishop's Stortford.—The East Riding County Council have granted a poison-licence to G. W. Mallison, Hessle.—The Northampton Town Council has renewed the following assistants' licences: A. M. Atkins (Yarde & Co.), G. W. Coy and F. Denney (Perkins & Sons), W. Richards and R. Thorrold (T. L. Wright), and W. J. Wills, E. G. Surry, and S. Perkins (J. Perkins & Son).

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

Sir Stanley Harrington and Mr. W. B. Harrington are among those elected on the Council of the Cork Employers' Federation.

At the Ballyshannon Quarter Sessions, the Great Northern Railway sued Mr. John McClelland, Ph.C., for the full return railway fare from Ballyshannon to Moira. The evidence was that Mr. McClelland took a cheap excursion ticket from Ballyshannon to Belfast on the general holiday. He left tho train at Moira to see some friends, and refused to pay the extra fare demanded, stating that other passengers alighting along the line are not required to pay. sengers alighting along the line are not required to pay. Defendant, who conducted his own case, said he would pay if decreed, but believed the demand was unjust and illegal. His Honour gave a decree for the difference of the fare already paid and the ordinary fare to Moira, stating he did not believe for a moment that the defendant desired to defraud the railway company.

Preservative in Quinine-wine.

At Dromore, co. Tyrone, on February 3, an inspector under the Sale of Food and Drugs Acts prosecuted James Burns, Dromore, for having sold to him three "naggins" of quinine-wine containing 5 gr. of salicylic acid per pint. The analyst's certificate stated that under no circumstances is this preservative permitted in quinine-wine. For the defence, Dr. Sugars stated that according to the analysis of the sample produced a man would have to drink about 2 gals, to get 120 gr., the maximum dose of salicylic acid. The quantity set out in the analyst's certificate would not be injurious to health, but a benefit. The case was dismissed.

Cultivation of Medicinal Plants

Sir Frederick Moore has written to the "Irish Times" regarding the suggestions to cultivate medicinal plants. He points out that it is by no means the easy matter which some imagine. The question of the "strain" of plant cultivated is, ho writes, also an important matter. The best results are generally got from cultivating the wilding strain in poor soil. There is much variation in the quality and quantity of the essential products of plants under varying discumstances. A large wass of vegetative growth may proquantity of the essential products of plants under varying circumstances. A large mass of vegetative growth may produce but a small quantity of the material required by the druggist. For instance, the ordinary garden strain of the foxglovo (Digitalis purpurca), as produced from the seed sold by seed-merchants, would be comparatively useless as a drug-producer, and would be relatively worthless as a material for sale. Also the foxglove dislikes a soil in which there is lime, while Atropa Belladonna does best in a limestone soil of poor quality: in fact, to be chemically valuable it must be cultivated in such soil. The product of the lavender-plant is another case in which both quantity and quality depend largely on the nature of the soil in which the plant is cultivated. Sir Frederick concludes with the recommendation that advice in this matter should be obtained from the Secretary of the Pharmaceutical Society.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

Chemists at Annan have decided, owing to the scarcity of assistants, to close daily (Friday excepted) between 1 P.M. and 2 P.M.

Master Struan Bain, son of Mr. John Bain, Ph.C., Bridge of Allan, has passed the Cambridge Junior examination in the first division. He is a pupil at Strathallan School.

Mr. Robert Duffton, chemist and druggist, Bogie Street, Huntly, has acquired the central property in Duke Street and Church Street formerly occupied by Mr. John Davidson, grocer and ironmonger.

Edinburgh.

Mr. James Bussell, F.F.I., Clerk and Treasurer to the Insurance Committee, and Mr. Rutherford Hill, Ph.C., are

"Ye Old Hearts" Association are conducting a prize-drawing in aid of the Red Cross Society. Dr. J. L. Ewing has given four volumes of Burns's works. St. Cuthbert's Association also has given a prize.

Stirring messages, urging eligible men to come forward, were published by the "Evening Dispatch" last week. Principal Laurie, Heriot Watt College, Bailie Inman, and Sir James Leishman were among the prominent citizens who contributed to the symposium.

In the Court of Session on February 5, a case under the Workmen's Compensation Act was decided in which Robert Young & Co., Ltd., chemical-manufacturers, Millikenpark, were the appellants, and John Neison the respondent. On were the appellants, and John Neison the respondent. On June 4, 1914, while in the employment of the appellants, the respondent fell into a vat of caustic fluid with the result that his right eye was rendered useless and his left cye injured, but the sight of it was not much affected. He was paid 12s. 6d. a week compensation until November 1915. On the appellants' application, Sheriff-Substitute Blair reduced the compensation to 7s. 6d. a week. The Sheriff-Substitute found that recently the appellants offered the respondent work at the same wage as before, which he declined. He was able to do such work. In any case, there are plenty of jobs to be had elsewhere of a light kind by which he could earn from 15s. to 20s. a week if he set which he could earn from 15s. to 20s. a week if he set himself to find them. The Court decided that the compensation must be suspended as long as the state of the facts continued—namely, that the employers were willing to take the respondent back into their service and to pay him the same wages as he had before.

In the Court of Session on February 3, the Second In the Court of Session on February 5, the Second Division gave judgment in an appeal from a decision of the Railway and Canal Commissioners in an application by the Anglo-American Oil Co., Ltd., London, against the Caledonian and North British Railway Companies for abatement of an undue preference afforded by the railway companies to the Scottish shale-oil manufacturers to the projudice of the applicate. to the prejudice of the applicants. It was said that the rates charged to the applicants for earriage of oil, naphtha, and motor-spirit are considerably higher than those charged

to the Scottish manufacturers for similar traffic were similar circumstances. The Commissioners had found similar circumstances. The Commissioners had found it there was an undue preference and granted the order aid by the applicants. The railway companies appealed to Court of Session on a question of law. They maintaid that the Commissioners, in arriving at their conclusion had proceeded on an erroneous construction of a sign agreement between the applicants and the Caledonian F way Co., which, they said, entitled the railway panies to impose the charges complained of. The Div The Divin held that the construction put upon that agreement by Commissioners was the correct one, and that its effect's merely to bar the applicants from claiming rebates, it not to entitle the railway companies to charge full stan rates if that resulted in an undue preference. The appears were awarded the expenses of the appeal.

Fifeshire.

There is no scarcity of bottles in the average househ Local chemists are receiving them in basketfuls.

The recent sharp snowstorm and intense cold are respsible for a new spurt in dispensing. Hot-wa hair soles, and chest-protectors are selling well. Hot-water bott,

Fourteen horses have had to be destroyed in Kirkcar Fourteen horses have had to be destroyed in Kirkcar The town Corporal owing to an outbreak of glanders. has ordered all public drinking-troughs to be closed down

Appeals (on behalf of chemists) are being favourableard by the local recruiting tribunals. The appeals only necessary where through error a List D man has be called up.

In many parts of the shire chemists have increased the dispensing-charges from 2d. to 4d., according to the nati of the prescription. This is necessary to meet the increaexpenditure in present-day trading.

Glasgow and the West.

A new lighting order is being circulated in the city, a shop-windows are coming in for special attention.

Mr. G. Shiach Kitchin, Pollokshields, was the second of a motion to form a "Subscribers' Defence Association hrought about by the recent meetings in connection with increased telephone charges (see C. & D., January 29, p. 11)

The new restrictions relating to the sale of opium p parations have been favourably commented upon in ph maceutical circles. It has long been felt that stronger acti is necessary in order to check abuses in the sale of laudanu

The Glasgow and West of Seotland Amateurs' Phot graphic Exhibition at 180 West Regent Street, Glasgow, attracting many photographic chemists. The first prize h been awarded to Mr. Wm. Milroy for a beautiful stucntitled, "Herring-boats." The exhibition is quite up tho high standard of former years, but in Class I (scientific and technical subjects) and Class V. (autochrome plaguage have been everyed.) no plaques have been awarded.

Sir Donald MacAlister, in the local papers, writes the the Army Council require additional recruits for the speci-companies of the Royal Engineers (Chemist Section), at have asked the assistance of the Glasgow University obtaining suitable men, with a good knowledge of chemist to meet the requirement. Owing to changes in the organ sation of the special companies it is not proposed to tal any more men in the rank of corporal; those who join no will do so in the rank of pioneer. Applications, stating qualifications in chemistry, should be addressed to Dr. T. Betterson, Chemistry, Destroyan Cleary, University Patterson, Chemistry Department, Glasgow University.

Poisonings during 1914.

The sixtieth annual report of the Registrar-General fe Scotland, which has been issued this week, gives particula of the accidental and suicidal poisonings which occurre in Scotland during the year 1914. The number of accident poisonings was 65, the following being the poisons colcerned: Opium (13 cases), carbolic acid (7), strychnine (5 ammonia (4), liniment (3), "irritant poison" (3), chlor form, phosphorus, narcotie (not specified), chlorodynlysol, and caustic soda (2 each); hydrochloric acid, oxali acid, alcohol, chloral, nitric acid, paraldehyde, copper su phate, belladonna, camphor, poisonous berries, chlor hydrate, boracic acid, arsenie, Easton's syrup, and corn sive sublimate (1 each); kind not stated (3). The death from suicide number 16, the poisons employed being coagas (6), opium (3), oxalic acid (2), turpentine, A.B.C. lin ment, lysol, salts of sorrel, and insect-destroyer (1 each). I is also stated that 48 deaths were reported in which anæ Scotland, which has been issued this week, gives particula of the accidental and suicidal poisonings which occurre is also stated that 48 deaths were reported in which anæs thetics were the secondary cause.

SULPHUR.—The exports from Sicily for the ten month ended October 1915 amounted to 258,948,300 kilos. agains 237,559,000 kilos. during the corresponding period of 1914.

French News.
(From the "C. & D." Paris Correspondent.)

ary Tubes Manufacture.—"Nature" refers to an are le in the "Revue générale des Sciences" describing the nanufacture of x-ray tubes in France during the war. At he commencement of the war the military authorities resistioned all the x-ray tubes in France, but as this su ly was found insufficient for the proper equipment of the radiological stations, the two French manufactories, while had been closed owing to their directors being called to e Colours, were reopened, in one case by the recall of the lirector from the Front, in the other by the appointing of a member of the Academy of Sciences as director. The guidance of a professor of the Collège de France, an of glass-makers began the manufacture of the special gle for the bulbs, and soon turned out the necessary quitity, so that France is now producing sufficient x-ray tube to r Allies. to r Allies.

or Allies.

RIS SOCIETY OF PHARMACY.—The first meeting of the Pres Society of Pharmacy each year presents specially in esting features. The newly elected "Bureau" then fo ally replaces that of the previous twelvemonth, and a rent of the work of the preceding year is read. Wartir does not justify non-observance of century-old treations, and M. Guerbet, on taking the chair for the latime, called on M. Pépin, the "Annual Secretary" for 915, to read his report. This being done, the President the discolleagues and vacated the "fauteuil" in a rof his successor, M. Cousin; while M. Pépin gave ple to M. Guérin, and M. George took the Vice-Presideial chair. The Treasurer and General Secretary remute unchanged. M. Vaudin, the former, has occupied his post since 1903, and M. François read the financial rent which they had drawn up in collaboration; the acusts were passed, and MM. Vaudin and François were the ked for their reports. Everything having been done "cently and in order," M. Vaudin submitted a note on a cethod for Testing Chloride of Magnesium by M. Becdet, a Parisian pharmaeist, at present mobilised at News. Then M. François explained his method for distinging between fatty glycerides and those which come lest strictly under the name of wax and vaseline. The tiriishing between fatty glycerides and those which come les strictly under the name of wax and vaseline. The mood is based on the action of acroleine on bisulphited To liline. A short discussion on this paper closed the me ing.

South African News.

(From "C. & D." Correspondents.)

e Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Cape Province.

R. J. McDougal Geekie, assistant with Cleghorn & Di oll, chemists, St. George's Street, Cape Town, has jo d the S.A.M.C. for service in East Africa.

CIAL EVENTS.—The staff of Petersen, Ltd., Cape Town, ha their annual outing to Hout Bay in January. At luneon sixty-six persons were present, Mr. J. Scott (the nutger) in the chair. Toasts and music followed, and the outdoor sports.—The Social Club connected with Heles, Mathew, Ltd., also had a very successful social eving with a good musical programme.

Rhodesia.

(ININE.—The Rhodesian Government has secured 20,000 bo es of quinine, the retail price of which is to be 3s. 6d. pottle of 100 5-gr. tablets.

Transvaal.

SEQUAH" DEAD.—One of the several Sequals, who in resque garb vended medicines in the market-places of pressure garb vended medicines in the market-places of the hief English-speaking cities some years ago, has just die at Johannesburg. The original "Sequah" was a Cadian named Hartley, but the "Sequah" referred to able is probably the man Stevens, who was convicted at Jurban and Johannesburg for practising as a medical method the last oceasion being in 1909 (see C. & D., Februar 27, 1909, p. 324). ar 27, 1909, p. 324).

"E"ILLUSTRATED SUNDAY HERALD" contained this week a j-ture of the dispensary in the Queen Mary's Royal Naval Hoital, Southend-on-Sea. The building was formerly an ho, and what is now the dispensary was the bar of the

German News.

German News.

Professor Dr. Willstafate, who is still working at the Kaiser Wilhelm Institute for Chemistry in Dahlon, has been asked to succeed Professor Goldschmidt as professor of chemistry at the Vienna University. Most probably Professor Willstatter will not answer the call from Austria, as he has already accepted a nomination as successor of Baeyer at the Minich University.

Use of Fays in Pharmacy.—In answer to a question of the "Deutscher Apotheker Verein" the Minister of the Home Department has declared that the prohibition of the use of vegetable and animal fats and fixed oils for technical purposes, especialle lard butter, margarine, etc., also applicates, especialle lard butter, margarine, etc., also plasters, etc., may not therefore be prepared with lard henceforth. There are in the German Pharmacopoia ten preparations in which lard is used.

A New Arentrake came into operation in Germany on January 1, 1916. Only a very few inedicaments show lower prices, these including citric and tratraric acids, bromide salts, silver proteinate, and cream of tartar. The following have again been advanced: Cocoa-butter, cod-liver, linseed, olive, poppyseed, rapseed, castor, seame, and cannow the substance of the compared of the

Trade Notes.

CANADIAN BUSINESS.—Lymans, Ltd., 344 St. Paul Street, are open to undertake business in Canada for British firms.

THE ERASMIC CO., LTD., Warrington has been advised that the company has been appointed soapmakers to his Majesty the King of Spain.

Subitol is a perfect succadaneum for ichthyol, which is placed on the British market by Chas. Zimmermann & Co. (Chemicals), Ltd., 9 and 10 St. Mary-at-Hill, London, E.C. "Mr. Radioba" is a douche method of obtaining a bath. The Townley Manufacturing Co., 294 City Road, London, E.C., invite applications for particulars as to the apparatus and terms of supply.

Chloroform is the subject of the advertisement in this issue of Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C. Special attention should be directed to the small packages, devised for securing freshness.

GINDREX SYNONYM.—Menley & James, Ltd., Menley House, Farringdon Road, London, E.C., inform us that, at the request of many medical men who prefer not to prescribe Gonorex by its trade-name, the synonym "Capsulæ Co., M. & J." has been adopted.

FINE CHEMICALS.—The Keene Co., manufacturing chemists, 50 Gray's Inn Road, London, W.C., give in their advertisement in this issue a list of the chemicals and drugs which they are in a position at the present time to offer at close prices to wholesale purchasers.

BRITISH INDUSTRIES FAIR.—This is to be held in the buildings of the Victoria and Albert Museum, South Kensington, London, S.W., from February 21 to March 3. Ward & Goldstone, Sampson Works, Salford, Manchester, inform us that they are exhibiting electrical goods.

"W" Brand Glassware.—William Toogood, Ltd., 77 Southwark Street, London, S.E., are the sole agents for the "W" brand laboratory glassware. Two varieties of glass are used—that for apparatus for ordinary use in the laboratory, and the other, high-resistant, for special pur-" W"

"CHRISTY'S MONTHLY" deals with those goods which are needed for sale in the spring—lipsalve, garden thermometers, etc. A feature is made of the "Empire" and "La Belle Alliance" brands of eau-de-Cologne. The advantages of Lunol for preventing condensation of moisture on spectacle-lenses are also set forth.

Beverage-tablets.—Ayrton, Saunders & Co., Ltd., whole-sale druggists, Liverpool, inform us that their new plant is turning out large quantities of tea, cocoa, and coffee tablets, and that they are now able to meet all the demands of retailers for these products. Particulars of the various kinds are given in an advertisement in this issue.

PROTECTED PRICES.—Alkia Saltrates, Kalsel and Reudel Protected List of the Proprietary Articles Trade Association. Of the first, the minimum retail price is now 2s. 9d., and the minimum wholesale price 26s. 6d.; of the last two, 1s. 9d. and 17s. These prices came in force on February 1.

"KEY TO LONDON TELEPHONE DIRECTORY."-Under this W.C., issue at 5s. a useful auxiliary to the London Telephone Directory. By means of this "Key" anyone can find out the name and address of the sowner of any particular telephone purpose any open of the sowner of the particular telephone number of proceeding for which the processity is telephone number, a proceeding for which the necessity is often felt.

PEPTONUM SICCUM.—Allen & Hanburys, Ltd., 37 Lombard Street, London, E.C., are now manufacturing on a large scale peptonum siccum for bacteriological use. The label of a sample we have received states concisely the merits of the preparation:

Peptonum Siccum "A. & H." is manufactured from specially selected material, and great care is taken to ensure exceptional purity and reliability for the particular purposes for which the product is intended.

Peptonum siecum is sent out in 1-oz., 4-oz., 8-oz., and 1-lb. bottles, which cost respectively 2s., 7s. 6d., 14s., and 27s.

FORMITROL.—A. Wander, Ltd., manufacturing chemists, 45 Cowcross Street, London, E.C., send us a specimen of the new packing of their formitrol-formalin pastilles. The boxes are $3\frac{3}{4} \times 1\frac{1}{2}$ in., and are white enamelled with gold ornamentation and black lettering. They are convenient for carrying in the pocket. The pastilles are made on the lozenge principle, which allows them to dissolve slowly and exercise a prolonged germicidal action on the throat. It is claimed that these pastilles are stronger in formaldehyde claimed that these pastilles are stronger in formaldehyde

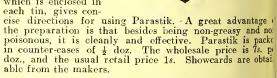
than usual, and as each pastille is wrapped in tinfoil than usual, and as each pastific is wrapped in tinfoll's volatile ingredient is prevented from escaping. New she cards are issued showing the new style of the package, there is a carton so arranged that it can be displayed the window or on the counter. A useful booklet with iltrations of bacteria cultivations is also supplied.

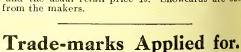
ALLIES' PRODUCTS .-- We continue to receive samples drugs and proprietary medicines which manufacturers Allied countries desire to introduce in the United Kingd Allied countries desire to introduce in the United Kingd, and the overscas Possessions. In most cases agents, required for the preparations. Among these is Zimanti (Lagana), a remedy for gastro-enteritis, which is made Vermondo Valli, 30 Corso Porta Vittoria, Milan. It is, powder form, and packed in wide-mouthed bottles attrively labelled.—Many samples of the specialities Gignoux Frères & Cie., manufacturers of pharmaceuti and chemical products, Decines, Lyons, have also been ceived. These include a series of "Gello" products—Gello-lowenthe, Gello-layande, Gello-Fiorayanti as ceived. These include a series of "Gello" products—tell-Cologne, Gello-menthe, Gello-lavande, Gello-Fioravanti, a Gello-camphre—which are grease-free jellies, containing the Cologne, tincture of arnica, spirit of camplor, el packed in collapsible tubes and cartons. They are a collapsible tubes and cartons. They are a co venient form of using medicaments. Gelloplastre, on t other hand, is a zinc-oxide rubber plaster to take the place German leucoplastre. It is wound on reels, which are of tained in cartons. Metalline is a liquid for capsuli bottles. By dipping the necks of the bottles into the liquid which contains various bronzes in suspension, a neat very attractive capsuling results.

PARASTIK.—William Browning & Co., manufacturi chemists, 4 Lambeth Palace Road, London, S.E., send

"PARASTIK

a sample of the new remedy which they produced have against trench-vermin. The name of the insecticide is Parastik. It is in the form of a stick of stiff paste with a pronounced aromatic odour. The sticks are wrapped in tinfoil and en-The closed in a tin case.
A cleverly written
pamphlet, "War's
Treet Worries" pamphlet, "War Insect Worries which is enclosed in





The figures in parentheses refer to the classes in which the mark: are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1916, p. 365.

(From the "Trade-marks Journal," January 26, 1916.) Label device with word "ELBON" (48). By S. A. Noble chemist, trading as the Elbon Perfumery Co., 12 Y Market, Selsdon Road, Croydon. 369,278. (Asse ciated.)

OPTILINE"; for Class 48. By Chas. Davis, 24 Rue Chaucha Paris. 370,689. Lyposa''; for C

Tank. Storoco. 1773. Trans. Storoco. 1773. T

(From the "Trade-marks Journal," February 2, 1916.)

(From the "Trade-marks Journal," February 2, 1310.)

"ARDAK"; for a chemical substance (1). By L. Ryland Ltd., Haden Street, Birmingham. 369,931.

Picture of elephant over monogram "A. F."; for chemicals (1). By A. Fergusson & Co., Ltd., 50 Ruchill Street Maryhill, Glasgow. 370,249. (Associated.)

"BRIDGE BRAND," with picture of bridge; for goods (I's By R. W. Greeff & Co., Queen Street Place, E.C. 370,148. (Associated.)

"ANYAC," and "ARBOSAN": for all goods (2). By the

ANZAC" and "ARBOSAN"; for all goods (2). By th Liverpool Borax Co., Ltd., Borax Street, Liverpool 370,126/978.

Portrait of Dr. Thomas Sydenham; for pills (3). B Sydenham's Remedies, Ltd., 30 and 32 Ludgate Hill E.C. 369,379.

Sciety of Chemical Industry.

A RETING of the London Section was held in Burlington Hese, Piccadilly, W., on February 7, Mr. A. R. Ling in th hair. In opening the proceedings, the Chairman drew att tion to the display of polarimeters, refractometers, and sp roscopes, all of which, he said, were entirely of British manfacture. Hitherto saccharimeters of certain designs ha only been made in Germany, but the firms exhibiting the night had succeeded in making instruments in every wa equal or superior to any made in Germany.

THE PAPERS.

The Papers.

I first paper read was on The Use of Enzymes and Sp al Yeasts in Carbohydrate-analysis, by Mr. W. A. Da., Rothamsted. In introducing Mr. Davis, the Chairman spc of him as carrying on under Dr. Russell, the director he Rothamsted laboratories, the fine Rothamsted trations, and as having been entrusted with the devising of w methods for analysing starch and other carbohydres. Mr. Davis's paper dealt with new methods for the nalysis of four groups of carbohydrates—saccharose, rafose, maltose, and starch. In the investigation of the me ds in use in the estimation of these substances several sous of error have been detected, and it has been found necesary to eliminate chemical tests and to rely on the saccharose in mangold extract it is found that the are differences in the results obtained as compared wit the estimations of pure sugar, this being ascertained to due to the presence of sodium acetate produced from the sic lead acetate employed to precipitate the tannin, the investion by marketic acid. wit the estimations of pure sugar, this being ascertained to due to the presence of sodium acetate produced from the sic lead acetate employed to precipitate the tannin, the odium acetate limiting the inversion by citric acid. Reference was also made to the method of inversion by hydchloric acid, and the author then proceeded to explain his process, which consists in the fermentation of the lagar by invertase obtained from autolysed brewers' and subsequent optical examination in the saccharimet. The usual polarimetric method for the estimation of filmose gives untrustworthy results, and this also is repled by a fermentation process. The fermentation met d for the estimation of maltose is based on the use of 1st free from maltase and containing only invertase and ymase. Such yeast cannot ferment maltose, but the other sugars are fermented away, leaving only the maltose beh. I. The ordinary chemical methods of hydrolysis invarily destroy a quantity of lavulose, and in a mixture of s ars it is impossible by these to estimate the maltose correctly. The existing methods for the estimation of star are quite untrustworthy, and Mr. Davis bases his pros s on the use of taka-diastase, a substance prepared by lrke, Davis & Co., and obtainable, he added, from any pha acist. After six hours all the dextrin disappears and only textrose and maltose are left. Later the maltase of the ca-diastase breaks down the maltose, and the dextrose and take aciastase breaks down the maltose, and the dextrose and take aciastase added and tho mixture left to fern the substance of the paper several speakers took part. Professor Armstrong spoke of its great value, inasmuch as fit the first time the author had put on record methods give a true picture of the composition of vegetable issue arbohydrates. Most of the determinations of starch Armstrong spoke of its great value, masmuch as fe the first time the author had put on record methods which give a true picture of the composition of vegetable tissus carbohydrates. Most of the determinations of starch in the past were of doubtful value, but we are now coming in success of the methods which would get rid of much of the on which has existed. A contribution on Acetic Anh ride, by Professor J. T. Hewitt and C. H. Lumsden, was, the absence of the authors, read in abstract. The pape was an historical review of the subject, and an inversation undertaken to find out the most suitable process ruse on a manufacturing scale. Mr. E. Hatchek followed with two notes on Graphic Methods in Industrial try, one on the graphic representation of mixtures of form the components, and the other a simple geometric solution an engineering problem involving three variables. The vere chiefly mathematical, but the meeting was much intered in the exposition, and in the short discussion that followed the hope was expressed that more papers in engineering the chemistry would be welcomed by the members.

Exhibit of Apparatus.

EXHIBIT OF APPARATUS.

At e close of the papers a description was given of the appa tus on the table. Adam Hilger, Ltd., exhibited four instruents: a pulfrich refractometer, saccharimeter, wavelengt spectrometer, and polarimeter. The pulfrich refracto-

meter and saccharimeter are made for the first time in competition with the instruments of German firms. The pulfrich refractometer, which gives the refractive indices of liquids and solids to one unit in the fourth decimal place, has been improved by the addition of a water-jacket, which surrounds the material whose refractive index is being measured. With this jacket the effect of differences between the laboratory temperature and that of the circulating water is very much less than with the solid wooden cover used by Zeiss. In connection with this instrument a new form of hydrogen tube (Guild, Journ. Phys. Soc., Nov. 1915) was shown, having a large bulb sealed to one arm. Any increase of pressure due to evolution of gas from the heated electrodes and walls during use, which is the chief cause of ill-defined lines, takes place very much more slowly owing to the increased capacity. The G' line is very prominent. The saccharimeter was of the single wedge compensation type, having a double Lippich field, and reading from -50 to +100° Ventske, and taking tubes 400 mm. long; the scale and quartz wedges are entirely enclosed, and the girder stand is very rigid. Illumination of the field is by a small electric lamp which, with a bichromate cell as a light filter, forms an integral part of the apparatus. The wave-length of any line direct on a helical scale on a drum, which rotates together with a serew which moves a constant deviation prism through a small angle; the telescope and collimator are permanently fixed at right angles to one another. The polarimeter was fitted with a triple Lippich field, and with a Ventske scale for sugar solutions; the three verniers were illuminated by small electric lamps connected to a battery mounted on the base. Bellingham & Stantey, Ltd., who had an exhibit, in taking up the manufacture of certain optical instruments, have refrained from copying the German design, and have produced a polarimeter built on novel lines which is claimed to be of higher accuracy and easier to manipulat and saccharimeter are made for the first meters for use in the examination of butters, oils, and fats, reading the refractive index either on a divided arc or on an eyepiece scale. One of the refractometers is designed to read "Total solids contents" for sugar estimation and to be used in conjunction with the new quartz wedge polariscope.

B.P. Notes.

By "Abel Scholar."

Ammonia Estimations.

A nice little problem for the pharmacist is how to determine the amount of free and combined ammonia present in the pharmacopœial ammoniated tinctures. Phenolphthalein is not suitable as an indicator, nor are methyl orange and tincture of cochineal. A very useful method for the determination of the free ammonia is to put 10 c.c. of the ammoniated tincture in a 25-c.c. sp. gr. bottle of the Regnault type, and in the wider portion of the neck, just below where the stopper fits, put a few pieces of litmus-paper about \(\frac{1}{4}\) in. square. Add the N/1 acid until nearing the neutralisation-point, a c.c. at a time, then proceed slowly until the litmus-paper shows but feeble acidity. It is a good plan to invert the bottle but feeble acidity. It is a good plan to invert the bottle and wait a few minutes for the full effect of the acid upon the alkaline solution, for, as is well known, litmus is slow but sure. Although the solution of tr. valer. amm. is very dark in colour, the change from alkalinity to acidity is readily seen by a close observer. The paper does not leave its position at any time, even after much gentle shaking, and as the acid drops into the bottle the blue colour is instantly changed to red, and so becomes a safeguard against excess of either acid or alkali. It is somewhat surprising to find what a divergence of strength in free ammonia the ammoniated tinctures possess.

Legal Reports.

Trade Law.

Claim for Duty and Customs Charges.—In the City of London Court on February 8, before Mr. Registrar Wild, tho case of Davies, Turner & Co., Ltd., v. Pronk, Davis & Co. was mentioned. The plaintiffs, foreign carriers, 52 Lime Street, E.C., claimed 13s. from the defendants for duty and Customs charges. The case had been before the Court on a previous oceasion and adjourned to enable the plaintiffs to give the defendants particulars of the claim which they required. The plaintiffs' witness, in answer to the Registrar, said that the defendants had been offered again the document, which was in French, and which he handed in to the Registrar. The Registrar (to the plaintiffs' representative): You are men of business. Have you given them particulars of this 13s.? The Plaintiffs' Witness: We have offered it to them, and they will not take it because it is in French. The defendants' representative said what they wanted was a copy of the particulars. The Registrar: I do not understand business men in the City quarrelling over rubbish of this kind. Have they shown you this? (holding up the plaintiffs' document). The Defendants' Representative: We have seen that, but we want it in English. The Registrar: I sthat all your defence? Tho Defendants' Representative: That is all we want. The Registrar: Judgment for the plaintiffs.

Wood, earrying on business at 91 and 93 Newington Causeway, London, S.E., as a surgieal-appliance maker, was the plaintiff in an action, before Mr. Justice Sargant in the Chancery Division on February 7, against the R. H. Heward Co., Crown Road, East Twickenham, also makers of surgieal appliances, for an injunction restraining them from infringing the copyright of illustrations in his trade pricelists. Mr. Romer, K.C., for the plaintiff, said his complaint was that the defendant company, instead of having their own illustrations for their catalogue, copied those in the plaintiff's. Plaintiff had been in business since 1884, and when he invented or designed any new appliance he had it sketched and printed in his catalogue. The defendant company consisted of Mr. R. H. Heward, his wife, and Mr. William Sutcliffe. Mr. Heward was in the plaintiff's employment up to August 9, 1914, when he left and started business for himself in the same line. The eatalogue his firm issued contained illustrations of different articles, which the plaintiff alleged were taken straight from his own catalogue, and which he had had sketched by his own artist. Expert evidence was given to bear out the statement. On February 8 the caso came to an end suddenly while an expert witness was in the box. Counsel announced that it had been agreed that the plaintiff should be granted an injunction, that the defendants should deliver up all catalogues in their possession and all zincos complained of except one; that there should be an order for costs, but that this was not to be enforced if 1001. was paid before February 15 and 1501. before May 8. In the event of the order being enforced, any sum paid was to be taken as paid on account. His Lordship assented.

Chemist Company's Calls. Let the City of Let.

Chemist Company's Calls.—In the City of London Court on February 7, his Honour Judge Rentoul, K.C., continued the hearing of the case already partly reported in the C. & D. (February 5, p. 39) in which A. Sargeant & Co., Ltd., eash chemists, 70 Queen Victoria Street, London, E.C., elaimed 501. 16s. 8d. from Mr. Robert Leeson, chemist and druggist, 12 Ordnance Road, Southampton, being a call of 5s. per share on 200 preference shares in the company and interest. Mr. Moresby appeared for the plaintiffs and Mr. Brooke for the defendant. Defendant had raised a counterclaim for 19l. for commission due at 5 per cent. upon the net profits of plaintiffs' Wimbledon Park branch, which he managed for them. The counterclaim was not disputed. Mr. Robert Leeson, the defendant, was called, and said that he first got into touch with the plaintiffs through an advertisement in The Chemist And Druggist. He was told there were four branches with managers who were all interested in the company. He was told by Mr. Sargeant that he had 400l. invested in the business, and he did not know until tho present trial that the amount was only 100l. Not until now did he know that Mr. Sargeant was an undischarged bankrupt. He was never informed that the shares it was proposed he should take up in return for his investment would be thirdelass preference shares to be created. In his view it was detrimental to have as managing director a man like Mr. Sargeant, who was an undischarged bankrupt. In crossexamination he said that he had put 150l. into the chemist's

business at Southampton where he now is. An instan of the undesirability of being connected with an undisch ed bankrupt was that when he (defendant) sent an ord to S. Maw, Son & Sons he received a letter saying the he sent the money the goods would be forwarded. The result was that he lost the sale of those goods. The funer hearing was adjourned until February 25.

Sale of Morphine Lamels.—At the Westminster Focurt on February 4, before Mr. Horace Smith, Halds, Ltd., Brompton Road, London, S.W., were proseed, under the Pharmaey Acts, for an illegal sale of morphe. Mr. W. S. Glyn-Jones, M.P. (instructed by Thommas, Quarrell & Jones), appeared for the prosecution, and tr. F. A. S. Gwatkin (instructed by McKenna & Co.) foldefence. The defendants pleaded guilty. Mr. Glyn-less briefly recited the facts, which were that an official on Pharmaecutical Society visited the establishment of the defendants at Brompton Road and there made a purse of morphine "lamels"—a new form of medicament, insisting of small gelatin squares containing various dgs. On this occasion two packets, each containing twenty ur squares, were purchased, which on analysis were four to contain altogether 4 gr. of morphine hydrochloride. By Section 17 of the Pharmaey Act, 1868, it is illegal tell any poison within the meaning of the section unless is labelled with the name of the article, the name and ad so of the seller, and the word "Poison." In this casched article was labelled "Poison," but not with the name and address of the seller. The section further provided spale restrictions for the poisons which are in Part 1 of he schedule. It is illegal to sell such a poison expended as poison exchedule. Sale of Morphine Lamels .- At the Westminster Fice address of the seller. The section further provided stal restrictions for the poisons which are in Part I olhe schedule. It is illegal to sell such a poison except a person known to the seller or to someone introduced to m. An entry must be made in a special book to be kept for at purpose. In the present case the purchaser was the unknown; no questions were asked, nor was he ask to sign any register, and it was quite clear that no entry as made in the register. Some importance is attached the matter, because lamels are a comparatively new for of medicament, and are found to be reaching the troop of active service. It is a very convenient thing for a new who knows the use of drugs to earry these medicaments ut it is an exceedingly dangerous thing to be in the ham of who knows the use of drugs to earry these medicaments ut it is an execedingly dangerous thing to be in the han of men on active service who did not know anything all about the drugs. A man might take one of these squ's, and it might lead him to sleep on duty; or, if he to it when wounded, it might be quite the wrong thing to No doubt officers have the best of motives in using se things and allowing their men to have them, but it id not but be regarded as a dangerous proceeding. He id not suggest in the present case that the article had approvided for that purpose, but it is necessary the p is should be made to understand that these are dang us poisons, and that the restrictions the law has imposed on their sale must be rigidly adhered to. Mr. Gwan, addressing the Magistrate in mitigation of the offence, id no doubt it is necessary the Pharmacy Acts should be applied; but this is a new form of medicine, and the le of this packet of lamels in contravention of the Acts as due entirely to the fact that these are the only poisons pt by Harrods in their drug-department. Harrods hav in of this packet of lamels in contravention of the Acts as due entirely to the fact that these are the only poisons pt by Harrods in their drug-department. Harrods haven elaborate system by which poisons are kept in a 102 300 yards away, to reach which from the drug-depart nt it is necessary to go through a subway under the road, if anyone requires a poison it has to be telephoned in There is, however, a great demand for these lamely officers, who come into Harrods' and cannot wait for a drug to be telephoned for. Harrods have a system by we the lamels are carefully sorted when they come in measure the lamels are carefully sorted when they come in measure with the Act. These are then put in one drawer, while the horizonous ones are put in another drawer. If a point comes in to buy he is shown a list, and from that lie selects what he requires. If morphine is asked for, is taken from the poisons-drawer, but ipecacuanha, or example, is taken from the non-poisons drawer. If apphine is bought, as a rule the requirements of the Acr recomplied with. The purchaser is generally known to manager of the drug-department, and signs the book. Infortunately, the representative of the Pharmacer all Society purchased a packet of the lamels which could be have been sorted in the ordinary way, as it had not Harrods' name upon it. Harrods do all they cale comply with the Act, but the company has a very to business, and on account of the numerous officers who is for these lamels it is necessary to keep the article the drug-department. Harrods are very shorthaid, having sent an enormous number of men to the Front at the company does the best it can in the circumstances. In fortunately, the system, like all systems, has a flaw it, as the present case shows. The Act was passed to predict the present case shows. The Act was passed to predict the property of the present case shows. The Act was passed to predict the present case shows. The Act was passed to predict the property of the present case shows. The Act was passed to predict the

sons being accidentally poisoned or getting rid of themves intentionally, but each little square contained only infinitesimal quantity. Mr. Glyn-Jones: My friend st not say that. I must point out that there are 4 gr. morphine in that little thing. Mr. Gwatkin: But the is that little square. The Magistrate: You might allow the whole lot. Mr. Gwatkin: Unless a person is id to chewing gum, I do not think he would get very ckly through the whole of that. The Magistrate: A man pain might swallow the lot. Mr. Gwatkin: These are supplied to the men, but to officers. The Magistrate: method is much too lax, I think. Mr. Gwatkin urged the morphine is supplied to the troops for their own use impresency. He suggested there are extenuating circumsness in the case. A fine of 5l. was imposed. On the questa of costs, Mr. Glyn-Jones stated that the articles had In analysed. Mr. Gwatkin argued that this was unnecessy, as each packet contained exactly what was stated in it. The Magistrate directed that 5l. costs be paid.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

T. H. Phelps & Co., Ltd. (P.C.).—Capital 1,2001., in 11. sees (700 preference). Objects: To carry on the business of hidressers, barbers, toilet-specialists, chiropodists, manicists, dental and skin specialists, masseurs, chemists and ggists, etc. R.O., 116-117 Chancery Lane, London, W.C. J. A. & F. Cunninghame, Ltd. (P.C.).—Capital 5001., in ordinary and 180 6 per cent. cumulative preference sees of 11. each and 200 5 per cent. employes' shares of each. Objects: To take over the business of a baker al confectioner carried on by Florence Cunninghame at laston, and deal, among other (things, in drugs and micals. R.O., 73 Church Street, Preston.

micals. R.O., 73 Church Street, Preston.

TANDARD DYE MANUFACTURING CO., LTD. (P.C.).—Capital
1/. in 1/. shares. Objects: To carry on the business of
rufacturers and sellers of the dyes known as "Standard
1-s," manufacturers of bleaching and dyeing materials,
R.O., Tudor House, Rathbone Place, London, W.

LEGULUS METAL AND PLUMBING CO., LTD. (P.C.).—Capital
100/. in 1/. shares. Objects: To carry on the business of
rufacturers of and dealers in metallic specialtics,
fings, furnaces, and moulds, and articles used in the
cmical-trade, including metallic cooling and heating coils,
porating-pans, metal-coolers, and extracting or blowing e porating-pans, metal-coolers, and extracting or blowing fs. dealers in paints, colours, and varnish, etc. R.O., I ch Street, Wolverhampton.

ch Street, Wolverhampton.

OHNSON & RILEY, LTD. (P.C.).—Capital 3,000%, in 1% sees. Objects: To take over the business of manufacters of earthenware, sanitary ware, and sanitary appliases, and chara-bane proprietors, carried on by James Iey, John Riley, and Elizabeth E. Morris at Bradley Id Pottery, Little Lever, Lancs, as "Johnson & Riley," at to carry it on and the business of porcelain, etc., nufacturers, manufacturers of druggists' goods, etc. J. Chalmers & Co., Ltd. (P.C.).—Capital 1.000%, in 1% res. Objects: To take over the business of Chalmers & C. manufacturers and importers of toilet-articles, perfery, and fancy goods, and to carry on the business of brdressers' and chemists' sundriesmen, manufacturers of brpins, curlers, toilet-goods, wire and metal workers, important of the control of the cont

orster & Biggs, Ltd. (P.C.).—Capital 5,0001., in 11. sless. Objects: To carry on the business of makers of and ders in surgical, dental, optical, photographic, electrical, chical, and scientific instruments, appliances, apparatus, materials, smelters and refiners of ores, assayers, districtly distillation of coal, shale, wood, sawds, cock, seaweed, indiarubber, guttapercha, bones or Semeal, etc. R.O., Ridgway House, 40-42 King William et, London, E.C.

orax Consolidated. Ltd.—The directors recommend a dividend of 1s. 6d. per share, less tax, for year to Stember 30 on deferred ordinary, making 10 per cent. for year, compared with 7½ per cent. for previous year.

Receivership.

arshall Drug-stores, Ltd.—A. E. Usher, 28 West Sunnist. Sunderland, ceased to act as receiver or manager on Jury 28.

Births.

Authenticated notices are inserted without charge.

Franklin.—At 67 Mayfield Avenue, West Ealing, London, W., on January 31, the wife of Stanley Franklin, chemist and druggist, of a daughter.

Todd.—At Newcastle Street, Burslem, on February 6, the wife of Edwin Hodgson Todd, chemist and druggist, of

Walton.—At 2 Upper Road, Batley Carr, Yorks, on January 16, Elizabeth Walton, chemist and druggist, of a daughter.

Marriages.

Authenticated notices are inserted without charge.

Cresswell.—Freeman.—At St. Luke's, Redcliffe Square, Earl's Court, London, S.W., on January 15, by the Rev. H. R. Anderson, Ernest J. J. Cresswell (Cresswell Bros.' branch, International Sponge Importers, Ltd.), 17 Riverview Gardens, Castelnau, Barnes, son of the late Mr. Randal Cresswell, to Florence, only child of Mr. and Mrs. W. J. Freeman, Hull. [At the wedding some of the bridegroom's pianoforte compositions, arranged by the organist, Mr. H. Wingfield, were played on the organ. A reception was afterwards held at the Bolton Mansions Hotel, Earl's Court, the honeymoon being spent at Bournemouth.]

SINCLAIR—HASLETT.—At Fitzroy Avenue Presbyterian

SINCLAIR—HASLETT.—At Fitzroy Avenue Presbyterian Church, Belfast, on January 26, Second-Lieutenant Samuel Sinclair, Royal Scots, to Jennie, eldest daughter of Mr. W. Haslett, ex-President of the Chemists and Druggists' Society of Ireland.

Deaths.

Authenticated notices are inserted without charge.

CHANCE.—At 44 Portland Court, London, W., on January 27, Mr. Henry Featherstone Chance (a director of Chance & Hunt, Ltd., chemical-manufacturers, Oldbury), aged fifty-seven.

Duck.—At Arncliffe, Whitchurch, Cardiff, on February 8, Elizabeth, widow of the late R. W. Duck, aged seventy-one. HARDIE.—At the Limes, Gilbert Road, Bucksburn, on February 4, Maggie Sophia Whyte, widow of John D. Hardie, M.A., chemist.

NUTTALL.—At Highfield Park, Rhyl, last week, Mr. Holroyd Nuttall, chemist and druggist, agod seventy-five. Deceased passed the Modified examination in 1869, and was formerly in business in Yorkshire. He had resided in Rhyl for the last ten years.

ROPER.—At Oundle, Northamptonshire, on February 1, Mr. Henry Edward Roper, chemist and druggist, aged seventy-three. Deceased passed the Modified examination in 1869.

Killed in Action.

Fergusson.—Captain Edward Keith Ogilvy Fergusson, 8th Seaforth Highlanders, whose death was reported last week (p. 43), was aged twenty-two. He was educated at Berkhamsted School, where he was Head Prefect and captain of football, and at Pembroke College, Oxford, where he held an open History Scholarship. He played Association football for the University. He obtained his commission in Schotarship. in September 1914.

Died of Wounds.

Quibell.—Major S. Quibell, 4th East Yorks, son of Mr. O. Quibell, Newark, has died of wounds in France. He was wounded twice in three weeks. On the first occasion he was helping other officers in the dressing-station. After returning to duty he received a gunshot-wound in the chest, which proved fatal.

Gazette.

Partnership Dissolved.

Bell, A., and Cronshaw, F., 23 Nab Lane, Blackburn, makers of sanitary fluid, etc., under the style of The Vulcan Disinfectant Co.

Bankruptcy Acts.

RECEIVING ORDER AND ADJUDICATION.
Webb, H. G., 192 London Road, and 733 and 735 Ecclesall Road, Sheffield, physician and surgeon.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

At the annual meeting of Blackpool Tradesmen's Association on February 2, Mr. J. Laurie, chemist and druggist, was elected a Vice-President.

MISS MILDRED CONSTABLE has been engaged by the Southwark Board of Guardians as temporary assistant dispenser

at the Southwark Military Hospital.

MR. WILLIAM WOOLLEY, J.P. (Cupal, Ltd.), Blackburn, was, on February 5, elected President of Blackburn and District Band of Hope Union for the eighth year in succession.

Mr. H. Dives, who has hitherto represented A. & F. Pears, Ltd., in Outer London, has been promoted to an important position in the London office, and Mr. T. A. Lyon has been appointed as his successor.

MR. LLEWELYN JONES, chemist and druggist, Lancaster Square, Conway, though over military age, recently offered his services to the R.A.M.C., through the Derby recruiting scheme, but his offer was refused.

AT THE ANNUAL MEETING of the Chelsca Traders' Association, held at the Chelsea Town Hall last week, Mr. Isaac T. Lloyd, chemist and druggist, 267 King's Road, was unanimously elected Chairman for the cusuing year.

CERTIFICATES OF NATURALISATION have been granted to

Certificates of Naturalisation have been granted to I. J. Balkin (Russian), Royal Infirmary, Leicester, medical practitioner; D. Giordano (Italian), 308 Wimpolc Street, London, surgeon; and L. M. Mayers (Russian), Eastern Hospital, Homerton, physician and surgeon.

The Rev. Ebenezer Rees, who has been appointed minister of Christ Church (Congregational), Enfield, was apprenticed as a chemist to Mr. Lewis Evans, chemist and druggist, Cardigan. After that he had experience at pharmacies in London, and then, studying at Dr. Muter's school, passed the Minor in 1893. It was in 1898 that he received a call to the ministry, and after a theological course was appointed to Grangs Church, Sunderland, in 1901, which he now leaves for Enfield. which he now leaves for Enfield.

Wills.

Mr. James Botham, 6 Cranbourne Road, Heaton Moor, formerly in business as a chemist, who died on November 19, left estate of the gross value of 6,644!. 6s. 11d., of which 5,011l. 10s. 6d. is net personalty.

Mr. Arthur Harris, Marsh Gate Lane, West Ham, of C. Harris & Sons, soap-manufacturers, who died on January 2, left estate valued at 28,293!. 18s. gross, with net personalty. 27 290! 16s. 3d.

sonalty 27,220l. 16s. 3d.

sonalty 27,220l. 16s. 3d.

Mr. MICHAEL BEDFORTH, Croft House, Somerset Road. Huddersfield drysalter and soap-manufacturer, who died on October 7, left estate valued at 9,321l. 6s. gross, with net personalty 8,776l. 2s. 11d.

Mr. JOHN LEVER TILLOTSON, Bidston Court, Bidston, Birkenhead, managing director of Lever Bros., Ltd., who was last seen alive on January 23, and whose body was found in the Thames on May 11, left estate of the gross value of 223,371l. 17s. 5d., including personalty of the net value of 204,434l. 13s. 6d. The validity of the will, dated March 25, 1914, with two codicils, has been found by the Court, and probate is granted to his brothers, James Lever Tillotson and Fredk. Lever Tillotson.

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Mr. W. H. Flood, chemist and druggist, has taken over the branch business of Mr. W. F. Enness at 385 Durnsford Road, Wimbledon Park, London, S.W.

BOOTS, LTD, have opened premises at 46 Thames Street, Windsor, which they will occupy pending the rebuilding of their premises at 14 and 16 Thames Street.

SCIO MASTICH.—The exports from the port of Scio during 1914 were valued at 26,000l., the destinations being the United Kingdom, Austria-Hungary, France, Greece, and Egypt.



Postal Address:

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, F
Telegraphic Address: "CHEMICUS, CANNON, LONDON" (two words
Telephone Number: 3617 CENTRAL (three lines).

INFORMATION WANTED.

Postal or telephone information with respect to makers or fi hand suppliers of the undermentioned articles will be appreciat Please address us as above:

white gloves.

124/56. "Satin Tablet," a penny line for chapped hands. etc.

126/71. "Zahn" tooth cleanser.

121/2. Bromidol. 121/60. Flowers of Lebanon. 124/12. "Soiloff" for oleaning white gloves. 124/56. "Satin Tablet," a penny 127/40. "Devaux Honey 11

Coming Events.

This section of the "C. & D." is reserved for advance notices meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Sunday, February 13.

Phormocist Volunteer Training Corps, Millbank Parade Grow at 10 a.m. Parade and examination tests.

Tuesday, February 15

Oldham Pharmoccutical Association, Café Monico, Union Stre at 3 p.m. Mr. R. Lord Gifford will deliver an address.

Wednesday, February 16.

Ealing Pharmacists' Association, Buol's Restaurant, at 7.30 r.
Whist-drive. Tickets (2s. 6d. each) from Mr. Arnold Robert 171 High Street, Acton.
Liverpool Chemists' Association, Royal Institution, Colqui Street, at 8 r.m. Sir Richard A. Robinson on "Pharma in the Future."

Birmingham Phormaceutical Association, Grand Hotel, at 7 r. Whist-drive in aid of Red Cross funds, etc. Tickets (reach) from Mrs. F. Smith, 221 Soho Road, Birmingham (Changed data)

each) from Mrs. F. Smith, 221 Soho Road, Birminghai (Changed date.)

Royal Microscopical Society, 20 Hanover Square, London, Wat 8 P.M. Messrs. Heron-Allen Earland and Rousselet "(tho Progress and Development of Vision and Definition und the Microscope." There will also be a demonstration Mr. J. E. Barnard, entitled "An Experiment with the Ultr Microscope."

Pharmacist Valuateer Training Corns, 17 Bloomsbury Square.

Pharmacist Volunteer Training Corps, 17 Bloomsbury Squar London, W.C., at 3.15 p.m. Examination tests. The same pr gramme will be repeated on Thursday.

Royal Society of Arts, John Street, Adelphi, London, W.C., 4.50 p.m. Mr. S. Charles Phillips on "Paper-supplies Affected by the War."

Affected by the War."

Thursday, February 17.

Birkenhead, Wallasey, and Wirrol Association of Pharmacist Masonio Room, Woodsids Hotel, Birkenhead, at 8 p.m. M. J. Cleworth (Manchester), lantern-lecture on "The Soci Side of the British Pharmaceutical Conference."

West Hom Association of Pharmacists, London Tavern, Feehurch Street, London, E.C., at 6 p.m. Annual dinne Tickets (5s. each) from Mr. W. T. Johnson (Hon. Secretary 123 Leytonstone Road, Stratford, E.

The Chemicol Society, Burlington House, Piccadilly, London, W. at 8 p.m. Among the papers to be communicated are the following: "The Simultaneous Estimation of Carbon and Bromide by the Chromic-acid Method," by Mr. P. W. Robertson: "The Relation of Position Isomerism to Optic Activity, Part X.: The Menthyl Alkyl Esters of 3 and 4-Nitrophthalic Acid, etc.," by Messrs. J. B. Cohen, D. Woodroffe, and L. Anderson; "A New Reaction of Scmicarbazid Hydrochloride," by Mr. E. E. Turner: "Note on a Product of Natural Indigo Manufacture," by Professor A. G. Perkir Hull Pharmocists' Association, Metropole Hall, at 2.45 p.m. General business, followed by a discussion on "Unifor Prices."

Feiday, February 18.

Royal Institution of Great Britain, Albemarle Street, Piccadilly London, W., at 5.30 P.M. Professor E. G. Coker, D.So., "Polarised Light and its Applications to Engineering."

Peterborough Chemists' Association.—The annual meeting and dinner will be held on February 24 at the Angel Hotel, Narrov Street. Tickets for dinner (5s. each) from Mr. H. E. Nobl (Hon. Sceretary), Peterborough.

Observations and Reflections.

By Xrayser II.

he Registrar's Annual Report

is fairly satisfactory from the Society's point of view, if, that is, the Society is a stisfied that its membership should "creep" up. There is been a little progress all round, except for the decline is the number of student associates, which was to be spected. The Executive Committee is still big with the "trade matters" question, but an "interesting rent" is hoped for in May. I congratulate Mr. Knapan, to whose kind services I have more than once been debted, on attaining his jubilee as librarian. The heduling of laudanum I welcome, as I should welcome most any tightening-up of the schedule; I have heard it token of as a surrender, but it is not quite that. It ill be a nuisance to have to register sales of pennyorths, and this may lead to refusals to sell so small antity, thus increasing the danger of misuse. Would not be possible to charge an extra penny for registering hen less than an ounce is sold?—If we were all agreed ere should be no difficulty about this.

n Entire Drug

is, literally, a whole drug, the word entire" being derived from the Latin integrum, whole, broken, sound. In figurative use both the Latin and e English words have carried the meaning of "uninted," "upright," but, says Murray, "with very wexceptions, only the literal senses have survived." he meaning "free from admixture" is not noted later an 1683, when Salmon wrote "intire from filth," and marked as obsolete. The phrase "vended entire" in e schedule to the Act of 1812 is therefore either a vival or a solitary survival of an old usage. The Act ferred to, however, adds the words "without any xture or composition with any other drug or ingredient natsoever," so that, even granting Mr. Kerly's contennet and the an entire drug does not cease to be entire if xed with starch and sugar, he failed to meet this point. e asserted, indeed, that sugar and starch are not gredients in the sense of the Act, but this is mere sertion, and contrary to general usage, for excipients d vehicles are frequently called ingredients, and rightly since the word "ingredient" means anything that ters into composition with something else. For once High Court was as correct in its philology as doubtist it was in its law.

r-raid Insurance

is a serious question with pharmatts, and an aspect that demands discussion is injustice of laying upon the owners of certain lds of property, and in certain parts of the country ty, the burden of insuring against loss from foreign is asion, which is a national peril affecting us all, since ithreatens our very existence as an independent people. I ried to raise this objection to the Government's insuring as escheme when it was first broached, but (I suppose see scheme when it was first broached, but (I suppose in some obscure notion that opposition to the scheme is unpatriotic) I could get nobody to listen to me. A polic movement is, however, now on foot to relieve ividuals of this burden, and I suggest that every irmacist, especially those who, in addition to the risk is run in common with the general public, are as Insurate dispensers servants of the Government, should give its movement their support by writing to their Parliantary representatives on the subject, and in every er possible way. The thing is unjust from many pats of view, and bristles with anomalies. It costs me insure from insure my premises from air-raids than from insure fire risk, which is demonstratively exorbitant, as 50 per cent. more than my wealthy neighbour next of rays for his, on which there is no shop. There is greater risk in my case than his, though I have a good deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on my all deal more to lose if my living depends on m

Preferential Railway-rates

have been a bone of contention in this country for many years, and the fact that the Germans have been enjoying these special privileges need not surprise us, though it does not lessen our sense of the injustice. It is only another evidence of the unfair methods that have oppressed many British industries in the past. All forms of enterprise have suffered. agriculturist used to complain that it cost him more to send wheat from Lincolnshire to London than it does for the grower in Minnesota to send it to London, even though it has to be transhipped at Liverpool. The fruit-grower in Kent or Surrey is handicapped by competition enjoying cheap transit, while woollen manufacturers complain of preferential rates in regard to wool, the raw material of their trade. From the point of view of the railway authorities there is something to be said in favour of preferences, but, on the other hand, the excessive demands made on the small trader are often, and not always unjustly, regarded as being imposed to compensate for the losses in connection with poor-paying preferential rates in other directions. The grievance is perennial; will it ever be redressed?

The Situation at Bexley Heath

is an object-lesson we shall do well to take to heart. Its meaning is obvious: we can take duty under the Insurance Act, or we can leave it, but we are not indispensable; if we will not do the work somebody else will. This fact was fully appreciated at the first, but with our acceptance of the position offered us it has fallen somewhat into the background. The most formidable rival we had to fear at the beginning was the doctor. He is still there, and Boots, Ltd., are there, too, and are in some respects more formidable rivals than he. The company's action greatly weakens our case against the Commissioners, and strengthens their hands against us. If Boots find their terms good enough, why do not we? If Boots find their terms good enough, why do not we? If Boots are ready to do the work, what does it matter that we refuse it? Would not the work be done with equal efficiency and less friction by one great organisation? These are questions which cannot but be asked, and our rivals are astute enough to suggest them. I am not complaining of Boots; they have a perfect right, being a business firm, to push their business on business lines. It would, however, be folly to play into their hands; if they get the bulk of Insurance work they will get a large proportion of our other business along with it. It is this that makes company chemists more to be feared than the doctors. We have got to face this situation, and to make up our minds as to whether or not we can afford to ignore it.

The Sunday Observance Act

Charles II. of pious ofmemory is, as you recently had occasion to remind us, not without interest for us chemists, for apparently we are exempt from it only in so far as our sales on Sundays are works of necessity or charity, and I presume the onus of proof to lie on the seller. How is proof to be supplied? The Sunday before your report of the appeal in Fairburn v. Evans appeared, in order to allay a tickling in the throat which threatened to "drown the parson's saw," I bought a pennyworth of toffee at a small sweet-shop, little thinking I was thus making myself liable to a fine of 5l. Was It seems so, and I do not see why or how the place of purchase affects the character of the Act. Does it affect its legality? Should I have run the same risk if the purchase had been made at a chemist's? The difficulty of proof would have been equally great, and we have had some experience of the difficulty of proving necessity under the Shops Act. I believe that prosecutions under the Sunday Act cannot be undertaken without the consentof justices, but if so it is evident that justices do consent in cases that to the layman seem absurd. Last week an old neighbour of mine was fined 10s. for shooting a hare on Sunday in his own garden, and though this was under another and later Act the relevance of the reference is not lessened on that account. It proves that neither commonsense nor absolute right is the sole guide with those who "indifferently minister justice."

AN OPPORTUNITY!

"Sanitas vermin Paste"

A safe, simple and effective cure and preventive of Body Vermin. In Tins 9d. each.

THE BEST GIFT FOR THE MAN IN THE TRENCHES.

LIBERAL TERMS TO THE TRADE, and SPECIAL TERMS for WINDOW and COUNTER DISPLAY, showing 100 per cent. PROFIT.

Details will be sent on application to
THE "SANITAS" CO., LTD., Limehouse, London, E.
January 1916.

BRITISH ABSOLUTE ALCOHOL.

Jas. Burrough Ltd. DJ. Cale Distillery, Hutton Rd.,

REYNOLDS & BRANSON, LTD.,

Grand Priz

LEEDS.

Turin 1911.

PHARMACEUTICAL PREPARATIONS.

Tinctures, Ointments, Pills, Tablets, Suppositories. Standardised and Clinically Tested Galenicals, &c.

SURCICAL INSTRUMENTS.

X-Ray and Electro-Medical Apparatus, Dressings, &c.

AERATED BEVERACES.

Sparkling Phosferrade, Puritzer, Dry Ginger Ale, &c.

SCIENTIFIC APPARATUS.

(Chemical, Physical, and Photographic). Balances and Weights.

CHEMICALS FOR TECHNICAL AND ANALYTICAL PURPOSES.

PHARMACUTICAL FORMULAS. (9th Ed.) -10/-, by Post 10/6. ART OF DISPENSING. (9th Ed.) 596 pages. 6/-, by Post 6/4. CHEMISTS' DICTIONARY OF SYNONYMS. 2/6, by Post 2/8.

THE CHEMIST AND DRUCCIST, 42 CANNON ST., E.C.



H. RUBECK,

DISTILLER OF ESSENTIAL OILS

ESTABLISHED 1856.

59 MARK LANE, LONDON, E.C.

Distilleries and Works; ROTHERHITHE, S.E., and in Spain.
Please inquire for

BRITISH THYMOL. SPIKE LAVENDER OIL.

Other Specialities will be advertised here from week to week.

MA revolution in the art of Urine Testing."—Medical Press & Circula,

ENDOLY.TIC-TUBES

"The Laboratory in the Waistcoat Pocket."

Wholesale Terms on application to the Sole Proprietors:

FLETCHER, FLETCHER & Co.; Ltd., HOLLOWAY, LONDON, R

Editorial Articles.

Military Service.

THE publication of the War Office notices regarding th coming into force of the Military Service Act he brought us a sheaf of inquiries as to the status (pharmacists under this Act and under the Derby recruir ing-scheme. In the first place, it should be realised that the country requires all the men it can obtain for militar services, and with this end in view has adopted variou expedients for raising men. The response from pharmac has been magnificent, as may be judged from the Phan maceutical Roll of Honour which we have published wee by week since the outbreak of war. It is acknowledge that there has been, and still is, a great waste of phar maceutical talent in the tasks which soldier-chemist have had placed upon them. Gradually with the slowing down of the stream of volunteers there came a recognition that the export trade and the national services must no be unduly hampered, and that discrimination should b exercised in the selection of soldiers. Under the Derb recruiting-scheme there was drawn up a list of occupa tions which should be considered as reserved. Severa lists of reserved occupations have been issued, and thos parts of interest to chemists have been published in TH CHEMIST AND DRUGGIST. In one of these lists "Chemist in the sense of persons dispensing medicines under th National Insurance Acts " are specially mentioned, and this is taken to include all persons actually employe in that work. Whether dispensing chemists generall are entitled to be "starred"—that is, placed in the Reserved List—is not definitely known, but there is reason to believe that cause for inclusion can be made out i most cases. There is also provision made in the Derby recruiting-scheme by which recruits who can show the Local Tribunals that the call to the Colours would entain financial disaster to the recruit or his dependants car have their names placed in later groups. It seems under this plan to be the practice to place the applicants back five or ten groups, but the practice of the Advisory Com mittees does not appear to be uniform. The Military Service Act is now in force, and the group systen is to close automatically on March 1. All unmarried men, or widowers without dependant children, who are b veen the ages of eighteen and forty-two will thus be bight under the operation of the Act. In the Military Svice Act there is provision made for the establishment of ocal Tribunals, who have power to grant certificates of xemption on the following grounds:

) on the ground that it is expedient in the national in cests that he should, instead of being employed in milities service, be engaged in other work in which he is trially engaged or in which he wishes to be engaged or,

if e is being educated or trained for any work, that he stid continue to be so educated or trained; or

) on the ground that serious hardship would ensue, if the man were called up for Army service, owing to his explain a financial or business obligations or domestic petion; or

on the ground of ill-health or infirmity; or
) on the ground of a conscientious objection to the
wertaking of combatant service

It ould seem that Sub-clauses (a) and (b) would ensure th exemption of most pharmacists, but it is entirely a mter for the Local Tribunals to decide. We have also relived many applications for advice as to whether it is better to attest under the Derby scheme or answer to call of the Military Service Act. Our belief is that th preferable alternative is attestation. There are cases, heever, in which correspondents express the preference to have their situation decided by the Tribunals es blished under the Military Service Act, and on this agunt we have given above the grounds upon which ceificates of exemption are granted. It should be fi her pointed out that chemists who attest should make it lear to the recruiting officers that they claim to be eriged in a reserved occupation. The procedure then acoted is to place a mark against the recruit's name in th Army Register so that when the group to which he bongs is called up his name will not be included. Were a person engaged in a reserved occupation is ceed up, this may be due to the omission of the "star" or he list. The proper course then is for the employer to end at once a notice to the recruiting officer who has is ed the notice, giving full particulars of the attested mi's claims for exemption from military service. In se cases inquiries are made as to the genuineness of tl claims, but in obvious cases the names are starred fe hwith.

Alcohol.

T question of considering the desirability of keeping o of this country the very large quantity of prodis used in the brewing and distilling industries having by raised in Parliament as a result of the desire for n onal economy and restriction of imports, it may be ir resting to note that in the calendar year 1914 no than 36,278,930 36-gallon barrels of beer was b ved and delivered for sale, and 51,933,629 proof g ons of spirits was made and handled (exclusive of ir orts amounting to 5,700,000 gallons) in the United Kgdom, together with 10,630,000 gallons of wine. Ding the year ended September 30, 1914, there were ul the following quantities of materials in the manufoure of British spirits and beer:

				Spirits	Beer
Malt	***	***	(bushels)	8,928,024	52,525,634
Unmal	ted gr	rain		9,706,736	92,385
Rice an	d ma	ize	(ewt.)	36,660	1,566,506
Sugar,	mol	asses,	glucose,	,	, ,
_etc.	•••	•••	(cwt.)	1,344,497	3,279,709
Hops		•••	(lb.)	-	62,655,438

he above figures show a total weight of over two m ion tons in 1914. It must, however, be pointed out th 72 million gallons of spirit was used for manufacting-purposes other than beverage, and at the present

time very large quantities of spirits are being distilled for use as a solvent in munition-manufacture. bonded warehouses on December 31, 1915, there were 1542 million proof gallons of home and foreign spirits, said to be equal to a five years' supply so far as the consumption of beverages is concerned, so that a clear case seems to be made out for restrictions in certain directions, and we understand that the Government are closely watching the matter. In 1907 the distillers representing 89 per cent. of the total output of spirits during that year reported that 73 per cent. of their grain came from abroad; the 300,000 tons of rice, maize, molasses, and sugar are, of course, imported, and the same applies to a large proportion of brewers' barley. The brewing of beer is in few hands, 82½ per cent. of the production in 1914 being brewed by 334 firms, and of these twentyfour brewed no less than 35 per cent, of the whole. Spirit-distillation is in still fewer hands, only 159 distilleries being at work in 1913 in the United Kingdom. It is estimated that the labour of about 465,000 men and women is devoted, directly or indirectly, to the making and selling of intoxicating liquor in the United Kingdom, and the question the Government has to consider is in what way this labour can be more usefully employed at this time of crisis.

Foreign Trade in January.

THE Board of Trade Returns for January show that the year has opened well, an encouraging feature being a substantial increase in exports, which stand at 36,757,1671., or 8,509,575l. more compared with January 1915, these figures being the highest recorded for any month since the outbreak of war. On the other hand, our imports continue to grow in a manner which some believe to be disconcerting, as they are much above the normal. Last month they were valued at 74,948,241l., or 7,701,850l. more than in January 1915, an increase of 11.45 per cent. Analysing the three main tables, we find that foodstuffs rose 3,700,800l. to 34,644,500l., enhanced prices rather than quantities going to swell these figures. Imports of raw materials, which were valued at 24,231,200l., were 1,050,600l. more. Wool imports fell off by 1½ million sterling, and oil-seeds and the like were 41,536l. less at 3,700,000l., but the prices generally went against us. Our imports of manufactured articles were valued at 15,813,000l., or 3,037,000l. more compared with January 1915, which does not seem healthy on the surface; but over one-third of the advance was in chemicals and allied products, the imports of which were 2,410,000l., or 1,126,300l. more. These figures are not surprising in view of the inflated values which prevail for many chemicals. The biggest increases in this schedule are among "all other kinds" of chemicals, 519,367%. The imports of this item were:

1914	1915	1916
£	£	£
114,090	128,487	647,854

thus showing the part that values play, as in these unenumerated figures acetate of lime, acetone, muriate of ammonia, sulphuric acid, and all the pharmaceutical chemicals are included. Dyestuff imports also display remarkable figures, the increase of those "unenumerated" being 352,3201. more compared with January 1915. The figures are:

	1914	1915	1916
Cwt.	11,914	20,359	28,071
£	26,680	39.825	392,145

They show an increase of 7,712 cwt., for which we paid 362.3201. more! Imports of quinine were 88,704 oz. (24,680l.) more, and were as follows:

> Oz. 237,838 £ 10,820 199 048 11,751

Turning to the exports, we find a small advance of 234,000l. in food, drink, and tobacco, and in raw materials the rise is 1,185,000*l*. to 4,625,000*l*., of which 642,000*l*. was for coal, which brought higher prices as the tonnage fell off 10 per cent., and the receipts were almost 25 per cent. more. Oil-seeds and the like declined by 17,000l. to 437,850l.; the tendency here is to tighten the grip on these exports. The bulk of our gain in exports occurred, as usual, in manufactured products, there being substantial increases in iron and steel, cotton and woollen goods. Chemicals, drugs, dyes, and colours were up by 640,000l., the figures being as follows:

> 1914 £ 1,624,435 £ 2.264 510 2,021,992

The upward trend of values is reflected in these figurese.g., the exports of bleaching-powder declined by 6,589 cwt., but the value increased by 3,854l.; of benzol and toluol 926,800 gallons was exported, against 151,800 gallons, but aniline oil was restricted to 24,500 lb.-only. There were large exports of tar oil, creosote, etc. (3,772,000 gallons in all). Medicine exports were 15,800l. more at 253,800l., the increase in quinine being 115,531 oz., or 16,194l.; we give further details in our Trade Report. Soda compounds declined by 32,728 cwt., sulphuric acid by 2,718 cwt., tartaric acid by 693 cwt., and potash compounds by 19,870l. Considering that a large proportion of export trading has to be declined owing to the inability to supply, the results in January must be considered good.

Ceylon Coca.

WITH reference to the note on Ceylon coca (C. & D., February 5, p. 47), we learn from the Imperial Institute that the statement which has appeared in the Ceylon papers that the Ceylon Agricultural Society spent a lot of money in getting an elaborate analysis of Ceylon cocaleaves through the Imperial Institute is inaccurate. No charge to the Ceylon Agricultural Society has been made for any analyses of coca conducted at the Imperial Institute.

Signing for Laudanum.

THE fact that the Pharmaceutical Society has passed a resolution lowering the alkaloidal strength of opium preparations, so that laudanum of the strength prescribed in the British Pharmacopæia 1898 is included in Part 1 of the Schedule of Poisons, has been published this week in a large number of newspapers throughout Great Britain. There is no harm done by such a statement as that made in "The Times" that "it is now illegal for chemists to sell laudanum to any person who is not personally known or introduced to them, and the buyer will have to sign the poison book," but it is not strictly correct. The procedure required by the Pharmacy Acts is that the resolution passed by the Pharmaceutical Society must be submitted for the approval of the Privy Council, and that if such approval be given the resolution and approval are to be advertised in the "London Gazette," and on the expiration of one month from such advertisement the article named in the resolution is to be deemed to be a poison within the meaning of that Act. It is open to chemists to consider that they are bound at once to register all sales

of laudanum, as it is certain that the approval of t Privy Council will follow, seeing that it was upon pressu exerted by that body that the resolution was passed. T position was much that of the wolf and the lamb-whi is which we need not particularise. There has, however been a general assent to the change, although a few ma contents have urged that the change should have been to opposite to that which is to be made. The line of lea resistance was followed by the Pharmaceutical Council previous experiences with the Privy Council have not be without permanent effect.

Trade after the War.

PROBABLY the most important recommendation of the Sub-Committee of the Board of Trade's Advisory Cor mittee on Commercial Intelligence published in the report issued last week (see C. & D., February 5, p. 4) is the suggested tariff on imports of certain articles, the manufacture of which, having been undertaken in th country, it is now necessary to protect after the war These industries naturally desire some security against the efforts which will presumably be made to break ther by dumping accumulated enemy stocks after peace One of these trades is the manufacture o optical and chemical glass, on which it is proposed tha the import-duties should be from 25 to 30 per cent ad valorem for five years. The industry is a "key industry, and its retention in this country is of national importance; on common glasswares the proposed dutie are 10 to 15 per cent. ad valorem, and on glass bottle 5 per cent ad valorem; brushes and brushware are als recommended for a 15 per cent. ad valorem duty. this connection a large number of educational institution and authorities, at the instance of the British Science Guild, have already undertaken not to purchase any chemical glassware of foreign manufacture for a period of three years after the war, provided that an adequate supply of British manufacture is forthcoming. branches of industry referred to by the Sub-Committeedo not include the manufacture of chemicals, and it is to be regretted that no evidence was invited from British firms who are endeavouring to build up new businesses and who are reasonably entitled to expect that the Government will safeguard them from the effects of unrestricted German competition after the war.

New Books.

British Journal Photographic Almanac, 1916. 7½×43. Pp. 983. 1s. net; cloth 2s. net. (Greenwood & Co., Ltd., 24 Wellington Street. Strand, London, W.C.) [This old-catablished photographic annual—it was established in 1860—contains the person of the contains the person of the pe cstablished photographic annual—it was established in 1860—contains the usual wealth of advertisements and literary matter. The epitome of progress is a valuable review of the photographic events of the year. It is arranged in sections, which permits of a ready assimilation of the information. In place of the usual review of new apparatus, which it would be unfair to attempt in these times, some fity pages are devoted to an enumeration of British resources in the manufacture of photographic materials and apparatus. The formulary section is brought up to date, and is preceded by a classified list of booklets issued by photographic manufacturers, which has made it unnecessary to include in the formulary those peculiar to a particular include in the formulary those peculiar to a particular manufacture. The frontispiece is a photogravure of the interior of the Suleiman Mosque, Constantinople.]

Interior of the Suleiman Mosque, Constantinople.]

Calendar of the Pharmaceutical Society of Great Britain, 1916. 8½ x 5½. Pp. 251+list of members and donors to Benevolent Fund. 2s. (Pharmaceutical Society, 17 Bloomsbury Square, London, W.C.) [This familiar drab-coloured volume deals with official matters connected with the Pharmaceutical Society. The various Acts of Parliament are given dealing with the sale of poisons and the practice of pharmacy and the charter and by-laws which govern the Society. The Medical Benefit Regulations under the National Insurance Act, together with lists of Pharmaceutical Committees, are also included. The list of members occupies about half the volume.]

Associations' Winter Session.

Oer meetings are reported under Insurance Dispensing Reports.

ackpool.—The annual meeting of the Blackpool and Fye Pharmacists' Association was held at Blackpool on Fe uary 3, Mr. J. W. Huddart (President) in the chair. TI Secretary (Mr. D. J. Bailey), in his report, reviewed the work of the past year, and the Trcasurer (Mr. G. A. Cl. ic) submitted the balance-sheet. These were approved. Thretiring President was thanked for his services during theyear, and then the election of officers for 1916 took plr as follows: President, Mr. J. Lauric; Vice-Presidents, Mr. S. Johnson and Huddart; Hon. Secretary, Mr. D. J. Bay; Hon. Assistant Secretary, Mr. G. A. Clarke; Tr surer, Mr. J. F. Blackhurst; Committee, Messrs. Bo royd, Greenwood, Kershaw, Sankey, and Swift; Autors, Messrs. R. H. Speight and O. L. Jackson; Drug Su Jommittee, Messrs. Laurie, Bailey, Boothroyd, Clarke, an Huddart. The new President proposed a vote of corolence with the widow of the late Dr. T. W. Butcher, an emarked that the pharmacists of the town had lost one of eir best friends in him. The vote was passed standing. Juraemouth.—The annual meeting of the Bournemch Pharmaceutical Association was held on January 21, Mr. Wallaee E. Curtis in the chair. Mr. Hirst, the retiring Predent, was unable to be present owing to illness. A restion was passed thanking Mr. Hirst for his services an expressing the hope of his speedy recovery. The accints, showing a balance in hand of 11. 13s. 6d., were added and the following officers elected for 1916: Preside, Mr. A. E. Lodder; Treasurer, Mr. D. Buchan; Hon. Sectary, Mr. J. H. Scampton; Assistant Hon. Secretary, Mr. A. Uvorth; Committee, Messrs. Bilson, Bingham, Ro and Curtis. Messrs. Lodder, Bingham, and Scampton we also elected as delegates to the Bournemouth Traders' Feration. An informal discussion then took place on Insance and other matters.

Mbridge Junior.—A meeting of the Cambridge Jur Pharmaceutical Association was held on January 31, Mr. Curse in the chair. Miss Segar gave a lecture on Mctifacturing Pharmacy. She dealt with the way drugs we dried and powdered, als

Mr Speakman Treasurer.

Theaster.—A meeting of the Doncaster Association of Ph macists took place at the Albany Hotel on February 1, the resident (Mr. F. W. Playford) in the chair. Mr. Bernard Hu es was elected a member. At the request of one or two of the ountry members, it was decided to try to arrange a Th sday evening meeting in the near future. A letter wa read from the Leeds Chemists' Association and the We Riding County Association, propounding a scheme for he federation of all the Yorkshire Associations into one party for organisation purposes. Messrs. E. A. Collings and H. W. Stiles were elected as delegates to the meeting in eds, at which the question is to bo discussed. A discuss notok place on prices of various patent medicines, and the was resolved to try to arrange a minimum price locy for several of the closely-cut proprietary articles.

anit was resolved to try to arrange a minimum price loc y for several of the closely-cut proprietary articles.

Imfres.—A meeting of the Dumfrics and Maxwell-tov Chemists' Association was held recently, at which it was untimated that Mr. James Reid, the Hon. Secretary, wis d to be relieved of his duties. Mr. Reid has been of practical help in fostering and maintaining the good fee g which has long characterised this Association in the 'company of the South.' Mr. John Fraser, who holds the post of Secretary to the Pharmaceutical Committee, was appinted to be Mr. Reid's successor. The Chairman of the cal Association and also of the Pharmaceutical Commit is Mr. Alexander Turner, pharmacist, Buccleuch Str. t, Dumfries.

Stat, Dumfries.

Jeck.—The annual meeting of the Essex County Associan of Pharmacists was held on February 8 at 17 sloomsbury Square, London, W.C., Mr. Matthews (Prident) in the chair. In his presidential address he with the trade aspect of the past twelve months, refining particularly to the powerful factor—viz., finance, and its part in the successful issue of the war. He improved economy upon all, and also reviewed National Heth Insurance matters. While being a little pessimistic as better terms being gained from the Commissioners,

he pleaded for fair play towards the Local Associations Executive and the Pharmaceutical Society, and asked members to refrain from wholesale condemnation should members to refrain from wholesale condemnation should these bodies not gain their aims. He believed they were honestly doing their best. He congratulated Mr. Goode on his co-option to a seat upon the Council. Mr. E. White, President of the Pharmaceutical Society, then addressed the meeting, and dealt in an interesting manner with the scope and aims of the Pharmaceutical Society. Mr. White having been thanked for his address, the election of officers for 1916 took place as follows: President, Mr. England; Vice President, Mr. J. H. Matthews; Treasurer, Mr. E. A. Holloway; Hon. Secretary, Mr. C. Goode; Committee, reelected. It was decided to raise the subscription to 3s. 6d. per annum, the "script" to be supplied to each member free as before. A letter from the Association of Dispensers was read, and it was decided to record the members' appreciation of the, attitude taken up by the Council in this difficult matter. Matters were reported from the Metropolitan and Home Counties Organisation Committee, and the actions of their delegates, Messrs. Matthews and and the actions of their delegates, Messrs. Matthews and Goode, were ratified.

Great Yarmouth. - A meeting of the Great Yarmouth Pharmaceutical Association was held on February 3, Mr. A. E. Richmond in the chair. A reply was read from the Proprietary Articles Trade Association, stating that to carry out the suggestion of face-value for patents and proprictaries is practically impossible. It was agreed not to hold a dinner this year. Mr. Breese's letter regarding the formation of a Chemists' Union was considered, but no action was taken.

formation of a Chemists' Union was considered, but no action was taken.

Balifax.—The annual meeting of the Halifax Chemists' Association was held on February 8, Mr. H. K. Woodward in the chair. The election of officers for the ensuing year took place as follows: *President*, Mr. A. Taylor; *Vice-President*, Messrs. H. K. Woodward, B. C. Hodgson, and J. A. Sutcliffe; *Treasurer*, Mr. P. W. Swire; *Hon. Secretary*, Mr. R. V. Sutcliffe. Circular letter P.S. 20 was read and received the approval of the meeting, emphasis being pressed upon the paragraph relating to the sale of the products of British manufacture. The question of the formation of a Chemists' Union as suggested by Mr. C. Breese was next raised, but the opinion was expressed that the Pharmaceutical Society is the only body which pharmacists should support. A letter from the Association of Certified Dispensers was considered, but in the absence of definite figures it was decided that the letter should lie on the table. Numerous points relating to Insurance matters from the Secretary of the Pharmaceutical Committee, Mr. P. W. Swire, brought the meeting to a close.

Eent.—The annual meeting of the County of Kent Association of Pharmacists was held at 17 Bloomsbury Square, London, W.C., on February 2, the President (Mr. A. E. Hobbs) in the chair. The Hon. Secretary produced the minutes, report, and financial statement, which were read and adopted. The following officers were elected for the year 1916: *President*. Mr. A. E. Hobbs; *Vice-President*.

minutes, report, and financial statement, which were read and adopted. The following officers were elected for the year 1916: President, Mr. A. E. Hobbs; Vice-Presidents, Mr. J. Harcombe-Cuff, Mr. Oliver, and Mr. Taylor; Treasurer, Mr. A. Fred. Corfe; Hon. Secretary, Mr. J. E. French. The Committee was elected on representative lines, as formally. as formerly.

French. The Committee was elected on representative times, as formerly.

Leeds.—At the meeting of the Leeds Chemists' Association held on February 2 (C. & D., February 5, p. 51), the letter from the Association of Certified Dispensers was considered (see C. & D., February 5, p. 58), but the subject was not one with which the meeting showed sympathy. Mr. J. H. Beacock and Mr. H. Gilleghan were reappointed delegates on the scheme for forming a Yorkshire Federation of Chemists' Associations. Mr. W. L. Currie gave an address on What is Wrong with Pharmacy? It is a weakness, he said, to try to introduce trade matters into the deliberations of the Pharmaceutical Council, bearing in mind that chemists are entitled to be regarded as being of professional status. Chemists are as much professional men as any of the other professions. They have often stood between the patient and the doctor and saved the life of the patient. In the present critical time everything must be done to maintain a high standard, and chemists should not sell their professional ability for nothing. Mr. Currie then referred to the unfortunate practice of prescribing proprietary medicines by doctors. This is sometimes due to the fact that the doctor seeks in this way to save time, and sometimes because he is not aware that chemists can make up medicaments equal to any sent out as proprietary. and sometimes because he is not aware that chemists can make up medicaments equal to any sent out as proprietary. If a chemist is not capable of making pills containing $\frac{1}{10}$ gr. of strychnine, or of making capsules, he would not have been able to pass his examinations. Educational requirements must be kept up, as youths are wanted in the calling who have a good sound general education. He hoped that before long the division of the Qualifying examination

would be an accomplished fact. Mr. Currie supported the idea of a Federation of Yorkshire chemists, but warned his hearers of the danger of a multiplicity of organisations. The action of the Scottish chemists over the Drug Tariff is an example of what can be done by unity and federation. In regard to trade matters, a scheme would be brought forward before long to have these discussed separately from the Pharmaccutical Council. Mr. Currio finished by quoting the following utterance of Jacob Bell:

"Political controversies and mercenary disputes are injurious."

the following utterance of Jacob Bell:

"Political controversies and mercenary disputes are injurious to the interests and character of both parties—the most effective methods which any class of men can adopt for securing their political and advancing their professional standing consists not in disputation and warm argument, but in a steady and persevering attention to intellectual improvement, and the establishment of such regulations as are calculated to ensure collective privileges by increasing the amount of individual merit."

A vote of thanks was given to Mr. Currie, on the proposition

of Mr. J. H. Beacoek, seconded by Mr. Bentley.

London (N.).—A meeting of the North London Association was held on February 3 at St. Padarn's Hall, Holloway, the President (Mr. A. W. Bromley) in the chair. After the Secretary (Mr. Herbert Skinner) had out lined the doings of the month, a novelty was introduced in the shape of a report by the Trade Secretary (Mr. Hugo Wolff) on the markets in drugs and chemicals. This drew Wolff) on the markets in drugs and chemicals. This drew forth an interesting discussion, and trade matters were the subjects round which all the talk of the afternoon revolved. The Secretary was asked to approach a soap-manufacturer on the question of protecting his prices by placing his goods on the list of the Proprietary Articles Trade Association. The question of the supplies of goods from neutral countries, which originally arose in the Middlesex Association on the motion of Mr. Wolff, was brought to the notice of the members through the circular from the Local Associations Executive, and it was resolved to come into line with other Associations on the matter. Cards and circulars are to be printed on the subject with the purpose of bringing it before the public. The failure of the London Insurance Committee to meet their obligations for the year 1914 provoked a storm of protest. It was felt London Insurance Committee to meet their obligations for the year 1914 provoked a storm of protest. It was felt that nothing but strong action would meet the case, and the Sceretary was asked to approach the Pharmaeeutical Committee so as to obtain a settlement forthwith. It has been found that accounts are in a very muddled state. Messrs. Brown, Lloyd, Hearle, Skinner, Tocher, Wolff, and Daniel took part in the discussion. It was also moved that the County Executive should take in hand the question of the state of affairs for the year 1915, as nothing has been paid for the months of November and December, and only 5d, per prescription for the preceding months. On the question of the checking bureau it was decided to leave it in the hands of the Pharmaeeutical Committee on the understanding that the Committee would take pains to conserve the interests of those who contribute the money. A letter of congratulation was sent to Mr. Goode on his co-option to the Pharmaeeutical Council. Mr. Goode on his co-option to the Pharmaceutical Council.

London (S.E.).-Mr. A. J. Hunt, Greenwich, writes to point out that the resolution to discontinue the sale of certain patent medicines (C, d, D). February 5, p. 52), was not arrived at unanimously. The view that Mr. Hunt took at the meeting was the broader one that without general consent throughout the area such a scheme would fail in its purpose. He is, however, not antagonistic to proposals which would tend to cut off the sale of profitless

proprietaries.

proprietaries.

London (W.).—A meeting of the Western Pharmacists' Association was held at the Restaurant Frascati, Oxford Street, London, W., on February 9, the President (Mr. A. R. Melhuish) in the chair. A few questions on Insurance matters were asked. Letters were read from the London County Association drawing attention to the proposed dinner of the Pharmacists' Volunteer Training Corps to be held in April next, and to the sale of British-manufactured goods in all pharmacies. Dr. Macdonald Brown then gave a lecture on Radium. Ho outlined the progress made in science from the early days to the present time, leading up to the discovery of radium by Madame Curie. He explained the new conception of the atom, and, after enumerating the sources of radium, he stated that there would probably be about 20 grams of radium in the whole world. The radio-activity of thorium lasts five years, whereas that of radium lasts 2,500 years. In the elucidation method of the detection of radium a demonstration was given with the the detection of radium a demonstration was given with the the detection of radium a demonstration was given with the electroscope, which much interested the members. As to the costliness of radium, in 1903 it was 8s. per milligram and in 1912 it was 15t. per milligram. In demonstrating the luminosity of radium, the lecturer used a small tube containing radium valued at 200t. In dealing with the medical uses of radium, the lecturer stated that radium-

water only lasts a few days, it requires to be preped afresh for each daily dose. Six weeks' treatment of a half-litro bottles of radium-water costs eighten guin. In the discussion which followed, Major Rawli, R.A.M.C., and Dr. Horsford took part. The lecturer assisted in his demonstration by Mr. J. D. Marshall Mr. S. Kutnow, who had brought a large number of rad

merthyr Tydvil.—The annual meeting of the Mertr Tydvil Pharmacists' Association was held at 148 Harmacists, Merthyr, on February 2, the President (R. P. Rees) in the chair. The Secretary (Mr. Frangave a résumé of last year's work, and tendered his respection of his office after three years' service. The Tiles gave a resume of last year's work, and tendered his re-nation of his office after three years' service. The Ti-surer (Mr. Harries) presented the accounts, which showed balance in hand. The following were then elected to his office for the ensuing year: President, Mr. V. A. Wi. Treasurer, Mr. Owen; Secretary, Mr. Evan J. Harr, Dowlais. A vote of thanks was given to the retireofficers.

Southampton.—A whist-drive was given this week Mr. W. Martin (President) and Mrs. Martin to the mebers of the Southampton Pharmaeists' Association. The word about eighty present. The Masonic Hall was artically decorated, and refreshments were provided in ante-room. After the distribution of the prizes Mr. Bates proposed a vote of thanks to the hosts, which vearried with enthusiasm.

carried with enthusiasm.

Wrexham.—A meeting of the Wrexham Pharmacia Association was held at Wrexham on February 3, Mr. C. Caldecott in the chair. The Treasurer presented his repowhich showed a small balance in hand. The Chairm welcomed Mr. L. B. Rowland, this being the first meeting the Association since his election as Mayor. Mr. W. Saunders' scheme for standardising the prices of pate medicines and proprietary articles was considered, but was generally felt that this matter could best be dealt with the Proprietary Articles Trade Association. The Instance prescriptions in the area are to be priced by the Cle by the Proprietary Articles Trade Association. The Instance prescriptions in the area are to be priced by the Cleto the Insurance Committee (who is a registered chemicand his staff. It was also resolved that the members of the Association, in dealing in goods, wherever possible shound give preference to British and Colonial products. A communication was read from Mr. Breese, Streatham, regaining the formation of a Chemists' Union, but the member thought that the Pharmaceutical Society, supported by a pharmacists, would attain the object of a Union. Action the suggestion of Mr. J. B. Francis, a Sub-Committee was appointed to arrange a price-list for this area.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the Nationa Health Insurance Acts.

Reports from Local Centres.

With special reference to the supply of medicines an appliances.

ENGLAND.

Bath. -The Pharmaceutical Committee is ealling th attention of panel chemists to the new pricing arrangement attention of panel chemists to the new pricing arrangement and states that prescriptions ordered under stock formula (mist. gent. cum sodâ, mist. quin., etc.) will be priced of the Abbey Green Dispensary Formulary. The formula cabe obtained from the Secretary. To save members trouble and cost of postage, the Committee is willing to send the whole of the Bath scripts in one consignment to the pricing establishment at Bristol. Instructions as to packing and date are then given.—At a meeting of the Medical Benefit Sub-Committee the amplication of the Pharmaccutical Committee. Sub-Committee, the application of the Pharmaccutical Com sub-Committee, the application of the Pharmaccutical Committee for administrative expenses was granted. A letter was read from the Pharmaceutical Committee suggesting that "aqua" should in all cases be interpreted as "aqua dest." during 1916. The Committee, on the advice of the doctors' representative—who stated that he considered distilled water to be unwholesome—declined to agree to the proposition. A late dispension for a discovery of the contraction of the cont proposition. A late dispensing fee of 4d. extra for pre scriptions written and dispensed between the hours of 9 P.M. and 8 A.M. was assented to. It was arranged to pay the chemists the sum of 6d, per script on account for the first three or four months of 1916.

Berkshire.—The Insurance Committee has decided to join the Pricing Bureau at Birmingham.

Blackburn.—The Insurance Committee has this week issued a report regarding the request of panel chemists that "repeat mixture" prescriptions should be abolished (see

C. D., February 5, p. 53). This report follows the lines recumended by the Conference held by the Insurance Commile, the Panel Committee, and the Pharmaceutical Commits. There have also been issued comparative statements There have also been issued comparative statements of e work of the Insurance Committee during the last thry years. These show that in 1913 the number of scripts isst! was 213,263, the amount claimed by the chemists was 1961. 5s. 4d., the amount allowed 7,043l. 8s. 8d., and the verage cost per script for the year 7,92d. For 1914 the figure were 203,157 scripts, 7,179l. 18s. 1d. claimed, 7.2. 17s. 11d. allowed, and average cost 8.52d. For 1915 the statistics were: 177,370 scripts, 5,327l. 5s. claimed, 5,3. 9s. allowed, and average cost 7.21d.—At a meeting of Insurance Committee on February 8, complaints we made that some insured persons had paid their panel door for medicine which should be dispensed by a chemist or panel. Mr. F. Morley invited members of the Committee in which a doctor intimated to a patient that he build not get propor and sufficient drugs under the Insurance Act, or recommonded his patients to receive pri te treatment in place of panel treatment, they would tall a serious view of the matter and report to the Insurance on the panel would be prejudicial to the efficiency of the metal service of the insured. on the panel would be prejuding al service of the insured.

Jurnemouth.-The Pharmaceutical Committee met on Fe ary 4, and appointed the Pharmaceutical Society its fe lary 4, and appointed the Pharmaceutical Society its age in the checking of prescription-pricing. It was also aged to pay to the Society for this service a sum calculat at one-fifth of a penny per insured person within the are. The price-list of The British Drug Houses was added for drugs not mentioned in the Drug Tariff. It was agreed to ask the Insurance Committee to make arrangements for forwarding prescriptions to the Western Pring Bureau at Bristol free of charge to pharmacists.

adford.—The report for 1915, which was before the Invance Committee at its last meeting, states that the preriptions dispensed numbered 333,828, compared with 37/54 in the previous year. The amount of the chemistry bil was 11,235l., as against 13,948l. in 1914, and the average oper prescription worked out at 8.077d., as against 8.9. Reference was also made to the new Drug Tariff and the arrangements for pricing prescriptions.

Istol.—The Insurance Committee has passed a resolution strongly protesting against the decision of the South-Wern Joint Pricing Committee in refusing additional repsentation to the large Insurance Committees in its area, re sentation to the large Insuranee Committees in its area, an requesting the Commissioners to take immediate steps to cure that the large financial interests of the Committees sh be adequately recognised. It has been pointed out the a Committee dealing with 20,000 people and 50,000 preriptions has the same representation as Bristol with 13 00 panel patients and some 400,000 prescriptions arially. There is a strong feeling that unless adequate are esentation is obtained Bristol should decline to have ar hing to do with the Committee. Offices for the Pricing Brau have been taken in Cardwell Chambers, Marsh Stet, and the work of pricing prescriptions has commed. The Bristol Committee will contribute approximally one-fifth of the cost of the bureau.

med. The Bristol Committee will contribute approximally one-fifth of the cost of the bureau.

If ye—At the meeting of the Bury Insurance Committee or cebruary 2, the reply of the Commissioners regarding the payment of emergency dressings was read. This recommended a flat rate of 1s. per annum for every hundred in red persons on the doctors' list, excluding rural area beents. The Commissioners also pointed out that it is no lever one to the Panel Committee to select four dispositions. of the state of th T Pharmaceutical Committee had intimated, stated the C k, that the checking would be done by the individual cl nists concerned.

oventry.-At the meeting of the Insurance Committee oventry.—At the meeting of the Insurance Communes of January 31, the Chairman explained the arrangements to have been made for a central pricing bureau, and red that the Committee enter the West Midland group. Cections were expressed at the way the Committee had be treated by the Commissioners, but it is satisfactory that the Chairman was able to obtain concessions as to the result of control and nomination of staff.

umberland.—At the meeting of the Insurance Com-ntee on January 23, a letter was received from Dr. Lythornthwaite, Rowrah, stating that, as the Committee resed to pay for the drugs he prescribes, he proposes, from

February 1, to charge 1s. a bottle for medicinc, payable in advance. The Clerk was directed to write and point out the illegality of such a proceeding.

Essex.—At a meeting of the Pharmaceutical Committee on February 8, it was decided to authorise the Pharmaceutical Society to be agents for the checking of prescriptions under the Central Bureau system and to contribute one-fifth of a penny per insured person for the cost of this service. The report from the Drug Sub-Committee was received and considered. It was decided to press for the arrangement of prieing emergency dressings at 33½ per cent. over cost, and not to accept the alternative suggestion that 1s. por 100 patients should be allowed the medical man. Progress was reported in the case of surcharging a medical man under reported in the case of surcharging a medical man under I.C. 40. It was decided to ask for a late dispensing-fee of 3d. for all prescriptions dispensed after 9 r.m. Other matters were referred to the Local Associations Executive for their consideration.

Gloucestershire. - The Insurance Committee on Febru-Gloucestershire.—The Insurance Committee on February 5 received a letter from the Commissioners pointing out that in the protest forwarded by the Committee no evidence was tendered as to the ability of the Committee to price prescriptions at less cost than under the Central Bureau scheme. If an estimate had been drawn up it would have been seen that the cost of doing the work locally would be prohibitive. The Chairman afterwards submitted a report from the prescription-checkor (Mr. Mountford), which showed that the average cost of prescriptions during the year was 7.9d. The amount saved by Mr. Mountford in correcting errors of pricing was 65d. by Mr. Mountford in correcting errors of pricing was 65l.

Grimsby.—At recent meetings of the Grimsby Pharmacists' Association it was decided to entrust the checking of prescriptions within the area to the Pharmaceutical Society. Mr. C. Dewing also raised the question of securing uniformity in the retail prices at which drugs are sold. It was decided to send out circulars to the members with a list of what should be regarded as minimum prices.

Hampshire.—At the meeting of the Insurance Committee on February 7, it was reported that 75 per cent. of the chemists' November and December accounts had been paid. Reports were presented by the Medical Benefit Sub-Committee on the new prescription-checking scheme. The new Checking Bureau has engaged the services of Mr. Griffiths, formerly with the Hampshire Committee, as expert Griffiths, formerly with the Hampshire Committee, as oxpert supervisor at a salary of 140*l*, per annum, with an understanding that the salaries would be revised in six months' time. It was proposed to allow 10*l*, for oxpenses of romoval. The Committee having passed a resolution at their last meeting, and forwarded it to the Insurance Commissioners protesting against the short time allowed for the preparation of arrangements under the checking scheme, the Commissioners have replied expressing regret, and adding that owing to the exceptional conditions of the war the negotiations were considered under unusual difficulties. On the question of repeat mixtures, it was reported that the the question of repeat mixtures, it was reported that the Panel Committee had resolved that where the chemist makes a written application to the doctor prescriptions should be written in full at the commencement of each calendar month. The Pharmaceutical Committee wrote explaining fully the reasons for desiring the abolition of repeat-mixture prescriptions without exception or qualification, and the Chairman of the Committee, having explained to the Medical Benefit Sub-Committee that the representatives of other Insurance Committees were of unanimous opinion that repeat-mixture prescriptions would render the working of the Cheeking Bureau extremely difficult, and that they, should not be allowed, the Sub-Committee agreed, and the Clerk was instructed to take the necessary steps with a view to this resolution being carried into offect at the earliest possible moment. Later, however, it was reported that the Panel Committee had, under the elause provided in their contracts, refused to agree to the Committee's resolution, and that the Commissioners had been advised accordingly. A full statement of the Committee's case, together with a copy of the reasons advanced by the Pharmaceutical Committee in support, would be forwarded for consideration, but no final reply had yet been received. In the meanwhile arrangements had been made with the doctors by agreement for prescriptions to be re-written one in every calendar month. Mr. Baker, (chemists' representative) protested against the Commissioners reversing the decision of the Medical Benefit Spb-Committee, and the Clerk read the Commissioners' reply which had been received, and which was dated January 31. This stated, "With reference to the question of repeat mixtures, the Commissioners had decided that the general rule prescribing the use of the term 'Rep. mist.' in the area of the Committee should be subject to the qualification that the The Pharmaceutical Committee wrote explaining fully the reasons for desiring the abolition of repeat-mixture pre-

term may be employed if both of the following conditions are fulfilled: (a) That the prescription to which reference is made has been given in the same calendar month; and (b) that the patient does not ask for the prescription to be written in full." The Commissioners added that they had given this decision as the matter was on administrative disposal had not been sufficient to enable them to obtain a full statement of the views of the Panel and Pharmaceutical Committees, and they accordingly proposed to limit the operation of their decision to a period of three months from January 1.

Resteven.—At a meeting of the Kesteven (Lines) Insurance Committee on January 29, the payment of 164l. 14s. 2d. for chemists' accounts was sanctioned for the year ended December 31. Mr. Spyvee, chemist, Sleaford, wrote that he was renewing his contract under protest, as he considers the remuneration offered by the new Tariff inadequate.

Lincoln. -At a meeting of the Insurance Committee on January 28, the Clerk, in reply to a question, said that the Commissioners have stated that they are about to issue a list of stock mixtures, from which the ten mixtures allowed by the Regulations may be selected. Lincoln is to join the Eastern Midlands Pricing Bureau, which has its head-quarters at Sheffield. The new scheme is for the benefit of chemists, said the Clerk, who added that in Lincoln the chemists have been paid in full except for one quarter in 1915, when there was an epidemic.

1915, when there was an epidemic.

London (Co.)—The Pharmaceutical Committee met at Bank Chambers, High Holborn, W.C., on February 8, Mr. A. H. Jenkin (Chairman) in the chair. Arising out of a question raised by Mr. Kcall as to information regarding chemists' accounts for 1916, a resolution was passed requestchemists' accounts for 1916, a resolution was passed requesting the Insurance Committee to furnish each chemist on the list, when paying the checked amounts due to him for 1916 each month, with particulars of (a) the value of the drugs at cost-price; (b) the value of establishment-charges; and (c) the value of dispensing-fees. The Committee gave further consideration to the work to be undertaken by the Control Charling Pursuage hability of the Pharmacountical and (c) the value of dispensing rees. The Committee gave further consideration to the work to be undertaken by the Central Checking Bureau on behalf of the Pharmaceutical Committee, and, after discussion, agreed to appoint the Pharmaceutical Society of Great Britain as its agent in the checking of prescriptions priced by the London Insurance Committee for the year 1916. It was also agreed to pay to the Executive Committee of Local Associations a sum calculated at one-fifth of one penny per insured person within the area of the said Insurance Committee for the above service. Correspondence between the Pharmaceutical Committee and the Panel Committee regarding the supply of tuberculin and Hedley's malted milk with hæmoglobin was then considered and formally received. The Committee maintained that these preparations, having been supplied bona fide by chemists, must be paid for. Letter P.S. 20 from the Pharmaceutical Society, concerning the Checking Bureau and prompt payment of chemists' accounts, was considered and formally adopted. The Finance Sub-Committee, in submitting their report, recommended that application be made to the Insurance Committee for the total amount of the estimated administrative expenses for the amount of the estimated administrative expenses for the year 1916. This was agreed to. They also reported that the Pharmaceutical Committee's contribution towards the pricing and scrutiny of prescriptions for the year 1915 was 1,640t., but as the amount in hand was not sufficient to meet that liability, and in view of the fact that 800t. applied for had not yet been received from the Insurance Committee in respect of the administrative expenses for the year 1915, it maintains that the prescription of the second of it was impossible for them to recommend this payment. The Statutory Rules and Orders, 1915 (No. 1237), were formally received. The Committee considered the method of payment to chemists for 1916, in accordance with Article 8 (1) of the Medical Benefit Regulations, 1916, and after some discussion it was finally decided to recommend to the Insurance Committee that the rateable proportion of the administra-tive expenses of the Pharmaceutical Committee be deducted tive expenses of the Pharmaceutical Committee be deducted from each chemist's account monthly. Further reports were received from the Secretary (Mr. G. A. Tocher) and the Technical Sub-Committee (of the Pharmaceutical Com-mittee). The last-named Sub-Committee emphasised their disapproval of the use of stock mixtures in any form, believing the system to be bad for all parties concerned.

Oxford.-At the meeting of the City Insurance Committee on January 28, the payment was sanctioned of chemists' accounts for the last quarter of 1915, amounting to 276t. 17s. 10d. The appointment of representatives on the Birmingham Pricing Bureau was sanctioned. Mr. H. C. Goodall (Chairman) then referred to the questions by the Pharmaceutical Committee which have replied to by the Commissioners. The chemists have been advised to

accept the ruling of the Commissioners that thereare accept the ruling of the Commissioners that there are difficulties in leaving the use of tap or distilled water the discretion of the chemist, although the chemists artifle of opinion that distilled water should be used in presentions. The "late" fee has been fixed by the Commissions. as follows:

An additional dispensing-fee of 3d, will be allowed in rect of each prescription marked "Urgent" by the practition by whom it is issued, which is presented for dispensing a dispensed by the chemist between the hours of 8 P.M. and who on ordinary days and between the hours of 1 P.M. on early-ong days, Sundays, Bank-holidays, and Christmas Day and 8 A. on days, Sundays, Ba the following day.

These fecs are half those which the Insurance Commee considered proper, but the resolution as given above as adopted with the inclusion of Good Friday among the (raordinary days.

Manchester.—At the meeting of the Pharmacetal Committee on February 2 a number of important memorial trial to Insurance were dealt with, but before pro-

ceeding with the business the chairman, Mr. F. W. Bates, J.P., read a letter from Mr. G. A. Mallinson, resigning his position as honorary secretary. The Chairman paid a high tributo to Mr. Mallinson's abilities, and said desired to place on record the high esteem in which Mr. Mallinson was held, and for the services he had rendered as honorary secretary to the Pharmaceutical Committee Since the commencement of National Health Insurance.
The pharmacists of Manchester commencement of Man



they are pleased to know that he had been chosen to receive such a high position trust as head of the Pharmaceutical Society's Checkg Bureau. The following resolution was carried uniquely: "That this Committee accord with restrictions of the property of Bureau. The following resolution was carried uncomously: "That this Committee accept with regret resignation of Mr. G. A. Mallinson as secretary and meter of the Manchester Pharmaceutical Insurance Commit and wish to place on record their high appreciation of unstinted labours on behalf of pharmacists, for they convinced that his new sphere of work will be as success as that which he has relinquished." Mr. A. Hershbe pharmacist, was elected hon. secretary to fill vacancy of sioned by retirement of Mr. G. A. Mallinson.

Rotherham.—At the meeting of the Insurance Comittee on February 2, the Chairman of the Medical Ben-Sub-Committee called attention to the new arrangeme for pricing prescriptions. The Clerk is to interview the Pharmaceutical Committee regarding the checking arrangements so that in accordance with the recommendation. ments, so that in accordance with the recommendation the Commissioners the period of retention of the prescr the Commissioners the period of retention of the presertions by the Pharmaceutical Committee should be restrict to a minimum. The Sub-Committee had recommend that an advance be made to chemists of 4d. per presertion. Mr. Turner tried to get this advanced to 5d., this amendment was rejected. There is, however, to be conference on this matter between the Clerk and the chemists' representative. chemists' representative.

Rutland.—It was reported at the last meeting of t Insurance Committee that the whole of the chemists ha accepted service on the panel for 1916. A report allegi irregularities by panel practitioners and chemists was la before the meeting, and was directed to be forwarded the Commissioners. Practitioners are not in future the Commissioners. Practitioners are not in future write "Rep. mist." prescriptions which necessitate reference to the scripts of a previous month.

Sheffield.—A meeting of the Pharmaceutical Committe was held on February 8, Mr. H. G. Williams in the chair The Secretary asked for confirmation of the finding of the conference of medical men, Insurance Committee, and phase the conference of medical men, Insurance Committee, and phase the conference of medical men, Insurance Committee, and phase the conference of medical men, Insurance Committee, and phase the conference of medical men, Insurance Committee, and phase the conference of medical men, Insurance Committee, and phase the conference of medical men, Insurance Committee, and phase the conference of medical men, Insurance Committee and the conference of medical men and macists, when it was decided that (1) doctors should sig their full name on prescriptions—not initials only; (2) the dressings, etc., should be held in stock by medical men for emergencies, as before, the goods to be supplied by chemist and others at cost-price plus 33½ per cent., and that a emergency dispensing-fee of 1s, be paid to medical practioners; and (3) that the amount of 4d. per script be paid in advance on presentation of accounts by chemists. Thes decisions were approved of. The Secretary reported that he had approached the panel chemist who is only givin when it was decided that (1) doctors should sig

to hours' service daily, with a view of obtaining more stactory dispensing-hours, but was informed that through to fassistance the chemist is unable to give more time Insurance work. A further appeal is, however, to be to the chemist. A letter was referred by the Insurance Tommittee, for the Committee's observations thereon, in a chemist who wished to alter his Insurance dispensinghra. It was decided not to agree to any alteration in thours. The Insurance Committee also stated that the Camissioners are unable to allow the administrative expess for 1916 while they contain an item of 70%. For ment to members of the Committee for expenses. It decided to omit this item from the estimate, and make a lication for a grant on account of 120%. A complaint by a hemist, that a medical man made damaging remarks rading the quality of medicino supplied to patients, was a wed to stand until further evidence is produced. Two hers were read from the Derbyshire Pharmaceutical Commitee, advocating combined action by the group of Pharmeutical Committees which form the North-East Midland by a grangements in dealing with matters which arise in time to time. It was agreed to fall in with the formation of a Sub-Committee for the areas concerned. A circur was considered from the Pharmaceutical Society, and ther particulars are to be asked for regarding the mode ochecking prescriptions in London. A letter was dealt when which was accompanied by a circular from the Comsistency, regarding the system for examination of priced society, and there particulars are to be asked for regarding the mode ochecking prescriptions in London. A letter was dealt when we have the appointment of any outside by as their agent. The Secretary pointed out that the Fullations made provision for a check to be made either by the chemist or the Pharmaceutical Committee. It was dided to reply that the Pharmaceutical Committee cannot go up their rights of scrutiny. It was decided to send a ptest to the North-East Midland Pricing Bureau on the emiss, interests must s

omerset. —At the meeting of the Insurance Committee of January 29, a report was received regarding the new pscription-pricing scheme. Some discussion took place a othe attitude of the Commissioners in this matter, but, a new member put it, it would not be good policy to fall of with the London body. The report embodying the same was adopted, but a protest is to be sent to the Commissioners regarding their course of action.

toke. —A meeting of the Insurance Committee was held of February 2, when the Committee adopted a resolution ptesting against the arbitrary methods of the Commissioners in the matter of establishing pricing bureaus. In 5 of the Commissioners' strong attitude, the Committee no other course open but to join the Birmingham and tral Counties group. Mr. Martin, the checker at Stoke, intimated that he intends to take up a position under tweet West Midlands group. On the recommendation of the Midical Benefit Sub-Committee, it was decided to accede the request from the Pharmaceutical Committee that the of the dispensing price-list for B.P.C. mixtures be distinued for the months of November and December 1915, ong to the increased cost of drugs, and that the ordinary deprices ruling in those months be allowed. It was dided that a further payment be made of 15 per cent. on emists' accounts for 1915.

Pest Bromwich.—A meeting of the Pharmaceutical Connittee was held on February 1, Mr. James Lock (Chairna) presiding. It was agreed to accept The British Drug I uses' list for pricing drugs not quoted in the Tariff. It by further agreed to adhere to the contract made with the taral Bureau for checking, provided 50 per cent. of the nmittees concerned do not cancel their contracts with the ceau after considering Circular P.S. 20. The checker's rort for the quarter ended September 30, 1915, showed that 129 prescriptions had been dispensed, at a cost of 3/. 4s. 11½d., an average cost per script of 5.93d. The drors' averages (cost per script) varied from 8.72d. (663 pts for 24d. 1s. 11d.), 8.07d. (621 scripts for 20l. 17s. 5½d.), 4½d. (2.051 scripts for 41l. 12s. 4½d.), 4.54d. (1.339 scripts for 24d. 1s. 11d.), 8.07d. (621 scripts for doctors' on use varied from 1l 1s. 1d. to 6s. 2d. The checker drew antion to the following: Vaseline ordered instead of paffinum molle; large amounts of potass. bromid. in a mixtes; argyrol. 15-per-cent., 2 oz.; conf. senae. 8-oz. quantes; oz. conf. senae. 8-oz. quantes; argyrol. 15-per-cent. 2 oz.; conf. senae. 8-oz. quantes; oz. conf. senae. 8-oz. quantes; oz. conf. senae. 8-oz. quantes;

five times for one patient, cost in all 11s. 3d.; zinc ointment, 8 oz.; glyc. ac. tannic., 4 oz.; ung. gall. c. opio, 4 oz.; sol. cocain., 10-per-cent., 5iv. (1s. 10½d.); pot. eitras, 4 oz.; tinct. thei co., 2 oz. and 3 oz. at a time; glyc. bellad., 2 oz. and 4 oz. (one patient had four prescriptions, costing 7s. in all); ung. rusci co., 2 oz. and 4 oz.; lin. belladonn., 4 oz. and 6 oz. (one patient had four scripts, costing in all 11s. 4½d.; another three scripts, costing 6s. 11½d.); seven scripts for dressings for one patient cost 16s. 11d. In regard to the balance due to chemists for 1915, which amounts to 183l. 16s. 5d., it is estimated that there are sufficient funds to meet this.

Westmorland.—At the meeting of the Insurance Com

Westmorland.—At the meeting of the Insurance Committee on February 2, a letter was read from the Pharmaceutical Committee stating that there does not appear to be sufficient evidence to warrant a request to the Panel Committee to investigate cases of suspected excessive prescribing. The Panel Committee is, however, to look into the matter.

West Riding.-At a meeting of the West Riding Insurance Committee last week, under the chairmanship of Alderman T. B. B. Ford, Alderman H. Dunn, seconding the adoption of the minutes of the Medical Benefit Sub-Committee, said it is unfair that the over-riding of all other departments by the War Office and the pressure on dectors for military sequipe should leave in the basel there. doctors for military service should leave in the lurch the people at home who have paid for medical scrvice under the Insurance Act. The question of unauthorised prescriptions had been brought to the notice of the Sub-Committee by a panel chemist, and is to be investigated. There had been an application from the Pharmaceutical Committee for an allowance to chemists of 33½ per cent. upon the cost of dressings supplied to panel doctors for surgical use, and it had been agreed to make this allowance to the surgical supplied to the surgica for surgical use, and it had been agreed to make this allowance, subject to the approval of the Commissioners. The outcome of the negotiations between the West Riding, Leeds, Bradford, Wakefield, and Dewsbury Insurance Committees on the matter of joint pricing of drug accounts is satisfactory, and the Chairman congratulated the Sub-Committee. The offices are to be at Wakefield, the meetings to be held at Leeds, and the Chairman was to be Mr. John Buckle, one of the members of the Leeds Committee.—A meeting of the Pharmaceutical Committee was held at Leeds on January 25. Communications from the West Riding Insurance Committee were read. These included the granting of the Pharmaceutical Committee's request for 3d per cent of the Pharmaceutical Committee's request for 33½ per cent. to be added to the cost price of dressings supplied by chemists to doctors as emergency dressings for surgery use. Also that 80 per cent. shall be paid on account for chemists' prescriptions about a month from the account being rendered, the balance of 20 per cent., making the full amount, being paid the subsequent month. A request for details of the estimate for administrative expenses of the Pharmaceutical Committee was discussed at some length, but as it was difficult to arrive at the probable amount of expenditure it was decided that whatever grant was made only actual expenses would be claimed, and the work of the Pharmaceutical Committee would be carried on with the strictest economy. A protest was sent to the Insurance Committee regarding the late arrivals of the monthly supplementary Tariffs and the consequent inconvenience to chemists of the Pharmaceutical Committee's request for 331 per eent. mentary Tariffs and the consequent inconvenience to chemists who wish to calculate the value of their prescriptions; as, however, the pricing is done at the pricing bureau, the Tariff and supplementary Tariffs are only of service in providing chemists with a means of working out a check for themselves. The most effective checking will be secured by the methods of the Central Checking Bureau tacking. for themselves. The most effective checking will be secured by the methods of the Central Checking Bureau, to which the West Riding Pharmaceutical Committee decided to subscribe as being in the best interests of chemists and others in the area. Mr. Briggs, who is the chemists' representative on the Committee of Inspection of the Pricing Bureau, gave an account of the arrangements and progress made towards the completion of the difficult task of pricing all processiptions under the new regulations. Mr. Matthew of prescriptions under the new regulations. Mr. Matthew, of Hoyland, was co-opted in place of Mr. Broadbent, of Honley, who has resigned.

SCOTLAND.

Dumbarton.—In reply to a letter from the Pharmaceutical Committee regarding the delay in paying the chemists' accounts, the Insurance Committee have been informed by the Superintendent of the Central Checking Bureau that it is hoped to be able shortly to send the accounts for October, November, and December 1915. The delay, it is explained, is due entirely to the large amount of irregularities which still exists, such as unsigned forms, forms with insufficient particulars, and forms forwarded to the wrong Insurance Committees, and, add the Central Pricing Bureau, it would be to the interests of all if the chemists would see that these irregularities cease. The slowing

down which these irregularities cause affects both the good and bad areas alike.

Glasgow.—A return of the insured persons within the Glasgow area shows that on January 1, 399,466 persons (268,203 males and 131,263 females) were entitled to benefits. There has been provisionally credited to the Insurance Committee by the Commissioners for last year: On medical benefit account, 122,119*l*.; on sanatorium benefit account, 10,147*l*.; on benefits administration account, 4,509*l*.

WALES.

Cardiff.—At the meeting of the Pharmaceutical Committee on February 3, it was stated that the Insurance Committee have in hand sufficient funds to pay chemists the full amount of their accounts for 1915. The statistics which were submitted showed that, owing to the large numbers of insured persons who have joined the Army, the expenditure on drugs was much less in the second half of the recent than in the first six menths. There was also of the year than in the first six months. There was also a reduction in the amount of dispensing-fees, which points to the greater use by doctors of stock mixtures.

Cardiganshire.—At the meeting of the Cardiganshire Insurance Committee on January 28, the application was received of the Pharmaceutical Committee for 251. as expenses. This was referred to the Finance Committee. The penses. This was reterred to the Finance Committee. The last-named Committee recommended the payment to chemists for the last quarter of 1915 of 68l. 12s. 6d., less 10 per cent. This was approved. In regard to prescription-pricing arrangements for 1916, the Finance Committee urged that the present arrangement with Mr. E. J. George, Walsall, should not be disturbed. The Clerk explained that under pressure other South Wales counties have agreed to give the Commissioners' scheme six months' trial. Mr. E. J. Davies thought that chemists must be a generous lot if they are going to supply drugs at cost price. Professor Jenkyn are going to supply drugs at cost price. Professor Jenkyn Jones added, "But in future the chemists will be paid in full." After discussing the "Deliver or die" attitude of the Commissioners the pricing scheme was accepted for six months, but the Clerk is to tell the Commissioners that the Committee is dissatisfied at the manner in which the schemo has been trust upon it.

Pembrokeshire. -At the last meeting of the Insurance Committee at Haverfordwest, the Clerk reported upon the proposal of the Welsh Commissioners relative to having precardiff under the supervision of the Cardiff Committee, and ultimately the Committee resolved that the time-table in connection with prescriptions mentioned in the report of the General Purposes, etc., Committee should be adopted, and that the Chairman and two members of the Finance Committee Should be authorised to make the of the General Purposes, etc., Committee should be adopted, and that the Chairman and two members of the Finance Committee should be authorised to make the periodical payments to chemists; also that under protest the Committee be recommended to entrust the Cardiff Borough Insurance Committee with the pricing, etc., of prescriptions. Mr. George (Walsall) is to be informed that the cessation of the Committee's arrangements with him for the checking of prescriptions is due to the Commissioners, and that any application he may have to make for an *cr gratia* payment should be sent to them. The Clerk was instructed to act upon the above resolutions forthwith. Dr. Brigstocke directed attention to the fact that medical men are unable to prescribe cod-liver oil to patients who men are unable to prescribe cod-liver oil to patients who were perhaps sickening for consumption without the risk of being surcharged, and that the Welsh Memorial Association would not pay on any such cases. It was resolved that the attention of the Commissioners be called to this state of affairs. It was decided to pay 75 per cent. of the chemists' accounts for the quarter ended December 31 last, and that the balance of the chemists' accounts for the September quarter 1915 be paid. The Committee supported a resolution for the formation of a national bureautor the checking of prescriptions, it being observed that it for the checking of prescriptions, it being observed that it was rather *infra dig*, for the Committee to have to go to the Cardiff Committee to get this work carried out.

Notes.

INSURANCE FINANCE.—Tho Treasury Committee which has been appointed to consider the finance of National Insurance is instructed as follows:

ance is instructed as follows:

To consider and report upon any amendments in the financial scheme of the National Insurance Acts which experience of the administration of Sickness, Disablement, and Maternity Benefits may suggest as desirable, within the existing limits of contributions and benefits and apart from further Exchequer grants, before the completion of any valuations of Approved Societies; and, further, to consider how far the work of Approved Societies could be simplified and its cost reduced, without detriment to the interests of insured persons, by amendment of the Acts and Regulations; and to make recommendations thereon.

There are twelve representatives of Approved Societies and

There are twelve representatives of Approved Societies and

Trade Unions on the Committee.

Society of Public Analysts

THE annual meeting of this Society was held at I lington House, Piccadilly, London, W., on Felary 2. Mr. A. Chaston Chapman (President) livered the annual address, which dealt with the neg t in this country of scientific knowledge. Chemiy is not merely an interesting intellectual occupat, but one of the foundation-stones upon which natical progress rests, and its continued neglect can only lead disaster, and in the end to our complete defeat by more.

gressive and far-seeing nations.

The following officers were elected for the year: Presid The following officers were elected for the year: Presid, Mr. Geo. Embrey: Past-Presidents, Mr. Leonard Archb. Mr. Geo. Embrey: Past-Presidents, Mr. Leonard Archb. Mr. Edward J. Bevan, Mr. A. Chaston Chapman, Bernard Dyer, Mr. Otto Hehner, Mr. R. R. Tatlock, E. W. Voelcker, and Dr. J. Augustus Voelcker: Vice-Pr. dents, Mr. H. G. Colman, Mr. J. H. B. Jenkins, and I. R. T. Thomson: Treasurer, Mr. Edw. Hinks; Hon. Sectaries, Mr. P. A. Ellis Richards and Mr. E. Richa Bolton: other Members of Council, Messrs. W. T. Burg, J. A. Dewhirst, J. T. Dunn, P. V. Dupré, R. G. Grimwoll, G. Harrison, E. M. Hawkins, A. W. Knapp, Steven, J. C. G. Macadam, William Macnab, H. L. Smith, & W. Collingwood Williams. Mr. G. D. Elsdon, B.Sc., F.I. read a Note on Human Milk, in which he gave the rest of analysis, including data for the fatty portion, of the state o analysis, including data for the fatty portion, samples of milk taken on two successive days from the sa source. A table of figures was included for 146 samples human milk, 67 of which were fully analysed and 79 p tially.—At the ordinary meeting which followed, with 1 tailly.—At the ordinary meeting which followed, with I George Embrey, the new President, in the chair, Mess Thomas Featherstone Harvey, Cyril Hubert Manley, Ca Cameron Roberts, and Frank Thomas Shutt were elect members. Mr. W. T. Burgess, F.I.C., then read some no on common processes used in Water-analysis, in which called attention to the several small details in ording processes, the neglect of which causes unexpected errol he also dealt with the care of laboratory glass apparathes stated that the green growths in condensers which He stated that the green growths in condensers, often disfigure these apparatus, could be almost entire prevented by the simple expedient of inserting a long he prevented by the simple expedient of inserting a long he of fine and bright copper wire in the water-jacket, the tree of copper taken up by the water being sufficient to inhil the development of the algae. The author said that he reasons for believing that the "nitrometer" method estimating nitrogen is not in such general use as its exclude warrants, and he exhibited a slightly modified appratus in which the determinations and he ward with all ratus in which the determinations can be made with ext dition. The ordinary measuring-tube with single-bore stock is fitted with a large rubber "cork" of a size sufficient. cock is fitted with a large rubber "cork" of a size sufficie to take a short length of wide glass tubing, which can, wh required, be slipped over the stopcock and graduated pa of the tube. The pressure-tube is carefully selected, so th its internal diameter is exactly the same as that of t measuring-tube. The NO is liberated in the usual way, as when the action is completed the pressure-tube is clampe so that the level of the mercury is about 40 mm. below the in the measuring-tube. A few drops of distilled water then allowed to enter the measuring-tube; this water remains the top of the turbil acid mixture and permits the then allowed to enter the measuring-tube; this water remains on the top of the turbid, acid mixture and permits the meniscus to be seen clearly. The wide glass tube is the slipped on the cork and filled with water, and after a feminutes the volume of gas and the temperature of the water jacket are recorded. A glass or celluloid millimetre sea is afterwards placed against the pressure-tube, so that it zero coincides with the level of the mercury; the stocock is then opened, and the rise of the mercury in the pressure-tube noted, and, as the two tubes are of equivalent to the pressure under which the gas was measured. The legion of the barometer is also taken, and the weight of thirtogen may be calculated in the usual way, or preferably the aid of tables, etc., given in Sutton's "Volumetr Analysis." The last paper, by Mr. J. H. Barnes, B.S. F.I.C., and Mr. Arjan Singh, dealt with Poli oil: A Ne Adulterant of Ghee. The authors deal with the edible see of Carthamus oxyacantha, N.O. Compositæ, one of the safflowers, which is found as a persistent thorny week growing with and alongside the wheat-crop in India, frou Umballa in the South to Peshawar in the North, and difficult to exclude the water remains the property which is the product of which is with the read of which is the product of the state of the safflowers and alongside the wheat-crop in India, frou Umballa in the South to Peshawar in the North, and difficult to exclude the second content of the safflowers are the safflowers and the safflowers are the sa growing with and alongside the wheat-crop in India, not Umballa in the South to Peshawar in the North, and i difficult to eradicate. The seeds produce poli oil, which i used as an adulterant of ghee (the clarified butter-fat c India). Chemical and physical constants, which they have determined from a genuine sample of the fresh oil, were given, so that an analyst should have little difficulty i recognising the adulterant when found in conjunction with the same of the sa

Trade Report.

1 prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

2 Cannon Street, E.C., February 10, 6.30 p.m. LTHOUGH manufacturing chemists and wholesale

druggists continue busy, there is a quiet tone in the nexts for chemicals and drugs, partly owing to the tening-up of the restrictions on exports and partly to themng-up of the restrictions on exports and partly to fight dufficulties, while the calling-up of many young Cy men for military service adds to the existing difficultit. Synthetic chemicals have been quiet, and the theory of a few is easier owing to lack of demand. Stonin is officially lower, and the prices for chloral hirate, hexamine, paraldehyde, and sulphonal can be seded in several directions. Citric acid and cream of that are dearer; tartarie acid is firmer. Bichromates and the dearer: glucose and starch nowders are much a 1½d. dearer; glucose and starch powders are much hher. The new Lofoten cod-fishing is still insignificant, al higher prices are asked for the new oil from Norway. (hin ginger is dearer, and shellac is enjoying a boom. Inthol and Japanese camphor quiet; turmeric very fi, and turpentine lower. Among essential oils, starase on c.i.f. terms is the turn easier; lemon and bergamot

of are also easier. The following table shows the

Incipal enan	ges:	•	
Higher	Firmer	Easier	Lower
es (Cape) fimony (Ch. cr.) owroot hromates (sia lignea (namon (ric aeid (ves (b-liver oil (am of tartar liseed lagon's-blood lmi (uger (Cochin) (cose, liquid and solid lney rrh lnento ellae rch-powder	Peppermint oil (Amer.) Sarsaparilla (Native) Tartaric acid	Anise oil (star), c.i.f. Bergamot oil Castor oil (E.I.) Cottonseed oil Guaiaeum Hexamine Hydroquin one Lemon oil (c.i.f.) Paraldehyde	Balsam Tolu Ipecacuanha (Cartagena) Quinine (see. hands) Santonin (makers) Sarsaparilla (Lima) Sulphonal Tonka-beans, Para (auction) Turpentine

Cablegram.

New York, February 9.—Business in drugs is fair. exican sarsaparilla is firmer at 11½c. per lb., and gentian s been advanced to 20e. Cascara sagrada is steady at Copaiba balsam has advanced to 58c., and hydrastis olden seal) is also dearer at \$4.50. Digitalis-leaves are gher at 75c. per lb. Opium, peppermint oil, and menthole unchanged. e unchanged.

ACETIC ACID.—Glacial is quoted at from 175s. to 180s. per t. ex wharf.

AGAR-AGAR.—For March-April shipment 1s. 9d. c.i.f. is ked, the spot price of No. 1 strip being 2s. 8d.

AMMONIA SULPHATE is dull and unchanged, London being l. 12s. 6d. net naked at works for 25-per-cent. ammonia r prompt delivery; Hull prompt is 17l. 5s.; Liverpool is l. 7s. 6d., and Leith 17l. 7s. 6d. to 17l. 10s. per ton in 1gs f.o.b. less 3½ per cent.

ANISE OIL (STAR).—The spot price for "Red Ship" brand 3s. 3d., and for January-February shipment 3s. 2½d. c.i.f.

is quoted. In the drug-auction 20 cases of "Red Ship" brand were limited at 3s. 3d. per lb.

ANTIMOXY.—The value of Chinese crude on spot is about

Arrowroot is dearer, and market of common St. Vincent grades has been cleared; freights have considerably advanced.

Arsenic.—Present spot price is 29l. per ton, being steady in spite of the recent large arrivals.

BICHROMATES.—The prices for home consumption have BIGHROMATES.—The prices for home consumption have been advanced $1\frac{1}{2}d$. per lb., and are as follows: Bichromate of ammonia (78 to 79 per cent. chromic acid), 1s. $0\frac{1}{4}d$. per lb.; bichromate of soda, powdered anhydrous (73 to 74 per cent. chromic acid), $10\frac{1}{2}d$.; ditto, crystal or cake (67 to 68 per cent. chromic acid), 10d.; powdered chromate of soda (59 to 60 per cent. chromic acid), $9\frac{3}{4}d$. per lb. Bichromate of potash is quoted by makers on application only.

Bromides are quiet and prices unchanged.

CAMPHOR (REFINED) remains firm but quiet, the sales including Japanese 2½-lb. slabs at 1s. 7d. to 1s. 7½d. per lb. c.i.f. for April-May shipment; sellers of December-January quote 1s. 8d., and January-February 1s. 7½d. c.i.f.; spot slabs are 1s. 8½d.; ¼-oz. tablets have been sold at 1s. 9d. c.i.f. for January-February, and 2s. is wanted on the spot.

Cascara Sagrada.—The London stock in the warehouses at the end of January 31 was 106 tons, against 133 tons.

Cassia Lignea.—Privately the sales include near at hand at 54s. 6d., and January-February shipment at 53s. 6d. c.i.f. At auction 347 cases (naval prize) ex Glenturret sold without reserve and with all faults at 64s., being dearer; 112 bags broken (naval prize) also sold without reserve at 31s.

Cassia Oil.—Quiet, with sellers of 80 to 85 per cent. c.a. at 3s. 9d. c.i.f.

CASTOR OIL.—In Liverpool, $8\frac{3}{4}d$. per lb. ex quay has been paid for good seconds Calcutta, and parcels affoat are quoted rather easier at $8\frac{1}{2}d$. per lb. On the spot, sales include medicinal at 90s., and firsts at 85s. per cwt.

CHILLIES.—The sales in Liverpool include 26 bags Sierra

Leone at auction at 122s. 6d. per cwt. ex quay.

Cinchona.—At the auction of pharmaceutical bark to be held at Amsterdam on Friday, February 25, 1,731 packages, weighing 100,062 kilos., will be offered. The first-hand stock at Amsterdam on February 3 consisted of 9,942 packages Government, and 37,122 packages private bark, including the first-hand lots to be offered on February 24 and 25. The bark shipments from Java to Europe during January 1916 amounted to 1,625,965 Amst. lb., against 767,000 Amst. lb. in 1915

CITRIC ACID.--A very fair business has been done, the spot price closing at 3s.

CLOVES are steady but quiet at $7\frac{1}{4}d$, per lb. spot for fair Zanzibar; to arrive, November-January shipment has been sold at $6\frac{1}{16}d$. c.i.f., also March-May delivery at $7\frac{1}{8}d$.

Coca-leaves.—No offerings will be made at the cinchona-auction at Amsterdam on February 25. The exports from Java to Europe during January 1916 were 591 packages, against 2,170 packages in January 1915.

COD-LIVER OIL.—Our Bergen correspondent Cod-Liver Oil.—Our Bergen correspondent writes on January 31 that the output of the cod-fishing is still insignificant. The market tendency for oil is very firm, the price being maintained at about 335s. per barrel c.i.f. terms. In London sales are reported of finest 1915 medicinal oil at up to 338s, per barrel ex wharf. To-day the Norwegian market is reported as excited; somo refiners are unable to make offers, and business has been refused in one quarter; from 350s. to 370s. c.i.f. is quoted for new Lofoten oil, but quite without engagement. In the drug-auction 20 cases of Japanese were limited at 10½d, per 1b.

Copper Sulphate is nominal at 50t, per ton for the usual

COPPER SULPHATE is nominal at 50l. per ton for the usual Liverpool brands.

CREAM OF TARTAR is very firm and dearer at 190s. per cwt. for 98-per-cent. powder.

Ergot.—Arrivals amounting to 88 bags have taken place from Spain and Portugal.

Galls.—Sales of Chinese for February-March shipment have been made at 70s. per cwt. c.i.f. for usual shape.

Gentian.—The high prices appear to have checked the demand; sellers still ask 62s. 6d.

GINGER.—The market for Sierra Leone has advanced to 37s. 6d. per cwt., which has been paid in Liverpool. Cochin washed is dearer at 43s. per cwt. on the spot.

GLUCOSE.—Both liquid and solid show a considerable advance, owing to few arrivals and higher freights. Starch powders are also much dearer.

Hydroquinine is rather more freely offered, and is now obtainable at 40s. per lb.

LEMON OIL for shipment from Sicily is easier, offering at from 3s. 4d. to 3s. 8d. per lb. c.i.f.; spot prices are unchanged at from 3s. 6d. to 3s. 9d.

MALT EXTRACT in 1-ewt. returnable drums is quoted at 40s. per cwt.; malt extract and 10-per-cent. cod-liver oil 57s. 3d.; ditto, with 15-per-cent. e.l.o., 63s. 9d. per ewt. in 1-cwt. drums, with the usual extras in bottles or jars.

MENTHOL.—Quict, at from 12s. $4\frac{1}{2}d$. to 12s. 6d. spot for Kobayashi-Suzuki. Business has been done in Kobayashi-Suzuki at 12s. $4\frac{1}{2}d$. per lb. e.i.f. for February-March shipment, and oil at 4s. $1\frac{1}{2}d$. e.i.f.; in combination 16s. 3d. e.i.f. is quoted from Japan. In auction 12 cases of an outside brand were bought in at 12s. 3d. per lb. for dullish crystals.

Olls (Fixed).—Linseed is firm at 43s. 6d. in pipes and 44s. 6d. in barrels on the spot. Cottonseed is easier at 43s. 6d. for erude in pipes on spot, 48s. for refined in pipes, and at from 50s. to 51s. for sweet refined in barrels. Ceylon Coconut is unchanged at 57s. 6d. for pipes and 59s. 6d. in hogsheads, both on spot; Coehin is 59s. 6d. to 61s. 6d. on spot, and London pressed is 50s. Ordinary brown crude Rape is scarce and nominal at 52s.; British refined in barrels is 56s.; Japan in cases is 47s. e.i.f. affoat. Soun oil is is 56s.; Japan in cases is 47s. e.i.f. afloat. Soya oil is 36s. 6d. for Manchurian in eases in London. Hull (spot) extracted is easier at 40s. 6d.; Lagos Palm is unchanged at 50s. spot, and in Liverpool 43s. 6d.

OPIUM.—Market is steady both for Persian and Turkish at last week's priecs.

Orange-Feel.—It is expected that the new Tripoli crop will be offering in a month or so. Meanwhile, holders ask 1s. 9d. per lb. for thin cut.

OXALIC ACID is selling at 1s. 4d. per lb., but it is expected to be more freely offered presently

Peppermint Oil.—American in bulk is scarce on the spot, and, with more buying interest shown, price has improved to 9s. 3d. to 9s. 6d. and 9s. e.i.f.

PHENACETIN.—Present market value is about 65s, per lb.; the anticipated fresh supplies have not yet arrived.

PILOCARPINE has been sold at 17s. per oz. for hydroehloride; nitrate is quoted at rather less.

PIMENTO is dearer, the spot price being 3,3,6d. per lb.; near at hand has been sold at 28s. 6d., and February-March at 26s. e.i.f.

Potashes are in better demand at unchanged rates.

Quicksilver is steady at from 16l. 12s. 6d. to 16l. 15s. per bottle.

-The second-hand market has had a temporary setback this week (probably due to the large bark shipments for January), and sellers came out at 4s. (and a trifle less), at which business was done in the usual Continental brands. The market is not expected to decline further. The landings in London during January amounted to 20,096 oz. and the deliveries to 106,992 oz., leaving the stock on January 31 at 1,441,488 oz., against 2,635,568 oz. at the corresponding date of 1915, or 1,194,080 oz. less. The January Board of Trade Return figures are as follows:

			1914	1915	1916
Imports		OZ.	237,838	199,048	287,752
•		£	10.820	11.751	36.431
British Exports	• • •	oz.	156,404	113,532	229.063
_		£	9.151	8 146	24 340
Re- exports		oz.	4,755	12,336	97.859
-		£	282	971	24,511

SAFFRON is steady, but quiet, at from 40s. to 42s. per lb. get.

SALTPETRE.—English refined is firm at 54s. per ewt., and 56s. 6d. for powdered.

Santonin.—On and after February 15 next the official prices of santonin will be as follows: 5-kilo. lots, 340s.: 10 kilos., 330s.: 25 kilos., 320s.; and 50 kilos., 310s.—all per kilo. net ex warehouse, London.

SHELLAC is dearer with a fair business. TN Orange on the spot selling on a basis of 90s. to 91s. per cwt. and good at 92s.; fine Orange is quoted at 107s. 6d. to 110s. The sales for delivery include March 91s, to 89s. 6d., May 92s. to 92s. 6d. to 91s., and August 93s. 6d. to 93s.

Soda Hyposulphite.—Pea-crystals are quoted at 17s. and

ordinary at 16s. 6d. per cwt. ex wharf, London.

TARTARIC ACID is firmer at from 2s. 6d. to 2s. 6½d. per lb.

THYMOL of British make, guaranteed B.P., is quoted at from 40s. to 42s. per lb.

TURMERIC remains very firm, the private sales including fair Madras finger at 35s. and Cochin split bulbs at 20s. on spot. In auction a bid of 20s. per cwt. is to be submitted for 13 bags of whole bulbs.

TURPENTINE has declined about 1s. 6d. per cwt., America closing at 49s. on the spot.

WAX (VEGETABLE) remains firm, the sales including Fet. ary-March shipment to Marseilles at 55s. 6d. c.i.f. buyers.

London Drug-auctions.

Commercial Sale Rooms,
Mineing Lane, E.C., February II.

At the auction held to-day a fair quantity of go, offered, for which there was a better demand than usu Cape aloes were irregular, but sold at consideral advanced prices, compared with the previous auction, a slightly easier than recent private prices. Some go hepatic Zanzibar in skins failed to sell. Asafetida is vecarce and high prices were realised for actions. Assarbidat is scarce and high prices were realised for ordina Annatto-seed is dull and easy. Ammoniacum realised go prices. Balsam tolu is tending easier owing to much lar supplies, and for Sumatra benzoin steady prices were pa supplies, and for Sumatra benzoin steady prices were pa Cardamoms met quite a dragging market, prices favouri buyers. Cubebs are well maintained in price. Reboil dragon's-blood brought an advance of 11. per cwt, a there was more demand for ordinary qualities. Eleming sells at higher figures owing to scarcity. No Siam gambo offered, and slightly easier prices were accepted f guaiacum. Jamaica honey, of which large supplies offeremet with keen competition and excellent demand advanced rates. Rio and East Indian ipecacuanha we about steady, but for Cartagena a decline of 1s. 6d. w paid on forced sales. Kola sold steadily, and myrrealised higher prices owing to an advance in freight Rhubarb was quite neglected, and for sarsaparilla the was generally a good demand, prices being practical unaltered with the exception of Lima, which was forced owithout reserve at cheaper prices. Tinnevelly senna w firm, especially pods. Turmeric is scarce and firmly hele without reserve at cheaper prices. Tinnevelly senna wifirm, especially pods. Turmeric is scarce and firmly held and beeswax is quiet generally.

	Offered	Sold	1
	Agar-agar 20	. 0	1
	Ajowan-seed 36	. 0	(
	Albumen 12	0	
	Aloes—		(
-	Cape	. 43	F
	Socotrine 10		
1	Zanzibar 13		1
	Ammoniacum 3	. 3	
1	Anise, star 36		1 .
Į	Anise oil, star 20		
١	Annatto-seed 151		F
ł	Aprieot kernels 37	0	I
1	Areca 20	0	
ı	Argol 1		
١	Arniea-root 2	1	
1	Asafetida 5	5	
ı	Balsam peru 5	0	J
1	Balsam tolu 42	3	J
ı	Belladonna-leaves 5	0	K
1	Benzoin—		K
ı	Siam 50	0	L
ı	Sumatra 228	39	M
L	Black-haw bark 1	0	M
Г	Buchu 28	1	M
Ī.	Calumba 108	14	N
L	Cannabis indica 5	0	0
ı	Cantharides (Ch.). 6	0	O
Ł	Capsicums 1	0	0:
L	Cardamoms and		O
L	seed 505	65	O
L	Caseara sagrada 463	0	Pa
L	Cashew-nuts 463	0	Pe
Ш	Celery-seed 9	0	Po
ı	Chamomiles 30	0	Pı
	Chiretta 10	0	Qı
	Cinnamon oil 27	9	Ri
	Coca-leaves 107	0	
	Cod-liver oil—	_	- n
	Japanese 20	0	Ro
L	Norwegian 20	0	Ro
Ľ	Condurango 20	0	Sa
	Croton-seed 17	0	,
6	Cubebs	0	,
Ľ	Cuttlefish-bone 88	70	i
-	Dill-seed 30	30	1
	Dragon's-blood 61	21	Sei
,	Drugs, etc.	0	Ser
1	(Miscell.). bls. 20	0	Sei
	Egg-yolk 154 Elecampane 7	0	ı
		10	ว้
		0	Spe
1		dorei	

ered Sold	Offered Sol
20 0	Eucalyptus oil 18
36 0	Gamboge 1
12 0	Guaiacum 2
	Gum aeacia 119
70 43	Honey-
10 0	Californian 86 8
13 0	Curação
3 3	Greek
36 0	Haytian 54 5
20 0	Jamaiean 543 54.
151 0	Hydrastis 1
37 0	Ipecacuanha—
20 0	Cartagena 31 East Indian 32
1 0	Habe Indian iiiii ba iii
2 1 5 5	Diameter Circulate III
5 0 42 3	Start I
	Sumper services in the
5 0	Trainiala
50 0	Lycopodium 1 0
50 0 28 39	Mastich 3 0
1 0	Menthol 7 0
28 1	Myrrh
00 = 4	Nux vomica 172 0
-	Olibanum 103 10
	Orange oil 9 0
1 0	Orange-peel 16 0
1 0	Orris (Mog.) 36 0
05 65	Otto of rose(vs.) 2 0
63 0	Papain 4 0
63 0	Peach-stones 6 0
9 0	Podophyllum-root 11 0
30 0	Puree 6 0
10 0	Quillaia, crushed 21 21
27 9	Rhubarb-
07 0	Chinese 146 32
	Ch. Rhap 20 0
20 0	Resebuds 20 0
20 0	Rosin 3 3
20 0	Sarsaparilla—
L7 0	Grey Jam 6 6
6 0	Hondulas
8 0	Tillia
0 30	Mexican
1 21	Mative Jam 40 01
	Senega
0 0	Senna and pods—
4 0	Alex
7 0	Meeea 35 230 Tinnevelly 351 230
0 *10	Spermaceti 4 4
5 0	Spermacou
* Sold pr	ivately.

	Offered Sold	Offered Sold
Sc	н 29 0	Wax (bees')—
St	esacre 10 *10	Abyssinian 225 0
T.	arinds (E.I.) 25 0	East African 80 0
To	a-beans 21 19	East Indian 152 0
	acanth 30 0	Jamaiea 58 25
	aeric 128 0	Madagasear 37 15
	rian (Jap.) 36 0	Mozambique 12 0
	veg., Jap 100 0	Portuguese 70 0
W	cherry bark 7 0	Zedoary-root 43 0
Y	g-ylang oil 3 0	
	G 17 1	60 63 1 7

obs.—Cape sold at an advance of 2s. 6d. to 3s. per cwt. as impared with the previous auction, but privately up to 43 had been paid for firsts. In auction good hard bright Msel Bay firsts with 20 per cent. tares were mostly bought in pids of 40s. and 40s. 6d. being refused; a ease of fine fir ullaged sold at 43s.; good seconds sold at 39s.; ditto, sli tly soft, 38s. to 36s. 6d.; ordinary dull to fair seconds, 35t to 37s.; loose collected, 35s.; dull and drossy, mixed wi dirt. 32s. wi dirt, 32s.

IMONIACUM.—Three bags of fair small to medium, mostly loopalish drop, sold at the higher price of 78s. per cwt. ECA.—A lot of 20 bags medium to bold clean Ceylon, rapr wormy, was retired at 35s. per cwt.

INICA-ROOT .- Two bags offered, of which one had been so at 101. per cwt.

AFETIDA is becoming very scarce. In auction five cases of rdinary brown, part blocky drop, sold at 92s. 6d. per cw subject to seller's approval.

LSAM TOLU is tending easier owing to the large supply an poor demand; 1s. 7d. per lb. will readily buy fair hard, sli tly drossy. Three eases sold at 1s. 4d. per lb.

NZOIN.—Steady. The principal demand was for or lary Sumatra seconds, 31 cases of which sold at from 6l, s. 6d. (one lot) to 6l. 10s. per ewt. for streaky white almonds and false-packed woody ends. Four cases good far almondy seconds sold at 7l. 17s. 6d., and fair seconds will old fracture at 7l. 5s. per cwt.

CHU.—Quiet. A single bag of greenish, rather stalky over sold without reserve at 2s. 4d. per lb. Round leaf we bought in at from 4s. 10d. to 5s. 1d. per lb., as to coor, and longs were held at from 3s. 6d. to 4s. 2d., the

lair for good green.

**CUMBA-ROOT.—Ten bags of small to bold fair washed so were bought in at 30s per cwt., and for 34 bags small to sold and partly wormy sorts 22s. 6d. was wanted. El en bags of ordinary natural partly wormy sold at 16s., an three bags of sea-damaged went at 10s.

anthree bags of sea-damaged went at 10s.

(RDAMOMS were in large supply, but only a few lots sol at generally easier rates, including a string of 32 cases sml bright heavy green Ceylon-Malabar at 1s. 8d. to 1s. l.; for extra bold fine pale 5s. 2d. was bid and refused; fai bold sold at 4s. 3d.; good medium pale sold at 3s. 6d. to 7d.; small ditto, 2s.; small dull, 1s. 5d. to 1s. 6d.; bold pa splits, 2s. 2d.; small splits and pickings, 1s. 4d. to 1s. l.; five bags shells sold at 3d. per lb., subject. Genuine was obtainable at 2s. and pale grey at 1s. 9d. (NAMON OIL.—A parcel of nine cases Cevlon bark sold

at 9d. per oz. for eloudy bitter.

Leseed.—A parcel of 30 bags fair East Indian met with retition, and sold at from 22s. 6d. to 26s. 6d., with con etition,

da iges at 26s. per ewt.

lagon's-Blood—Reboiled, which is scaree, sold at an ad nee of 1l, per ewt., two cases realising 2ll; the broker intated that no further shipments were on the way. Theen eases of ordinary dull lump sold at 7l. 5s., and six eas of ordinary bag-shaped lump at 6l. per ewt.

ISMI is dearer, 10 cases selling at 95s. per cwt. for fair

pa'n paste.

TCALYPTUS OIL.—A lot of 18 cases offered, containing 70, per cent. of eucalyptol, for which 2s. 6d. was wanted. Pr. tely, 2s. 3d. to 2s. 6d. per lb. is quoted for 75 to 80 r cent. eucalyptol.

(ALICUM.—Two barrels slightly drossy block sold at 8d. perb., being the turn easier.

pero., being the turn easier.

(RIUN BAISAM.—A lot of 100 cases offered, of which 10 ums sold at 4½d. per lb. without analysis.

INEY.—The largo offerings of Jamaiea (543 packages) me with a good demand at higher rates, competition from the principal packers and distributors being keen. New ere pale banana set in barrels sold at 41s.; good pale set, 39s o 40s.; fair palish set, 37s. to 38s.: ordinary dark to fair bren set, 34s. to 36s. Of Haytian, 54 barrels offered and sol at from 34s. to 37s. for ordinary to fair palish brown set ig. Seven packages yellow Curação sold at 36s. 6d., and 6 cases Californian went at 38s. to 39s. for pale setting.

Good arrivals of Chilian have taken place in Liverpool recently, but mostly sold to arrive.

recently, but mostly sold to arrive.

IPEGACUANIIA.—A lot of five bags Cartagena sold without reserve at from 14s. 3d. to 14s. 6d. per lb. for mostly ordinary stemmy quality, these prices showing a decline of about 1s. 6d. per lb. Privately 16s, has been paid, and also sales of Matto Grosso have been made at 21s. per lb. Of East Indian, 30 bales offered in auction and six sold at 17s. 2d. per lb. for fair native picked, more or less greyish quality. The parcel offered on this occasion was below the average quality of previous shipments being less hold and average quality of previous shipments, being less bold and more grey.

Kola was steady, five packages of West Indian selling at from 6d. to 6½d. for good bright dried halves and whole, and at 5½d. for dull mouldy. Nineteen bags of dull mouldy Ceylon sold at 5d. per lb., subject.

LYCOPODIUM.—A single bag of genuine was retired at 8s.

MASTIC.—Three cases of fair pale slightly specky tear were retired at 2s. 9d. per lb.

MYRRH.—Dearer. A lot of nine packages sold at 50s. for small drop, 42s. for good siftings, and 40s. for very small siftings, practically dust.

OLIBANUM.—Ten cases of fair drop sold at 45s. per ewt.

QUILLAIA-BARK.—A lot of 21 bags of crushed sold without reserve at 47s. 6d. per cwt.

RHUBARB was extremely quiet. Two eases of small to medium flat High-dried, with three-quarter good fracture, sold at 1s. 4d., and 30 eases of medium to bold round horny High-dried, with three-quarter fair pinky fracture, sold at from 8d. to 8\(^3\)d. per lb., partly without reserve.

ROSIN.—Three casks of Spanish sold without reserve for whom it may concern at 19s. per cwt.

whom it may concern at 19s. per cwt.

SARSAPARILLA.—During the sale interval fair arrivals have taken place, especially Lima-Jamaica. A lot of 14 bales of which sold at from 1s. 1d. to 1s. 4d. per lb. for ordinary and more or less mouldy, being cheap2r, and in another interest a bale sold at 1s. 7d. Genuine grey Jamaica was steady, fair selling at 1s. 8d. and partly rough at 1s. 6d. to 1s. 7d.; native Jamaica was in good demand, and 11½d. to 1s. was readily paid for fair red, 10d. to 11d. for dull and pale red, and 7d. to 9½d. for inferior yellow to ordinary pale red. Of Honduras, 10 crates sold at 1s. 6d. for Crown C.B. in triangle. C.B. in triangle.

SENEGA.—In auction 20 bales of inferior stalky, with dried grass, sold without reserve at 1s. 7d., and for badly seadamaged 1s. 2d. was paid. The private price of sound is

2s. 2d. net.

2s. 2d. net.

Senna.—Although a fair quantity of Tinnevelly has arrived, the continued congestion at the docks prevented the bulk being offered at the drug-auction to-day, only 250 bales being catalogued, and practically all sold at firm prices, as follows: Good bold greenish Tinnevelly 10d., fair bold 7½d. to 8½d., and inferior to ordinary yellowish and stalky 6½d. to 6¾d., sea-damaged 5d. to 5¾d.; Pods sold at from 5d. to 8d. per lb. Privately. Alexandrian is searce, the value of fine whole leaf being 2s. 3d., half leaf 1s. 3d. to 1s. 9d., as to quality; siftings, if available, would be worth 10d.; medium pods have been sod in small lots at 2s. 9d., and ordinary offer at 2s. 4d.; Tinnevelly pods have been sold up to 6½d. Of Alexandrian a bale of fair whole leaf sold at 1s. 6d., and a bale of half leaf at 1s. 3d. per lb.; several sales had been made privately.

Spermaceti.—Four bags of dull refined American sold

Spermaceti.—Four bags of dull refined American sold without reserve at $3\frac{1}{2}d$. per lb.

Tonka-beans.—A lot of 19 cases Para sold cheaply without reserve at 6d. per lb. for old dried partly turning wormy. Privately, the price of sound frosted Para is from 1s. 10d. to 1s. 11d., and Angosturas about 2s. 9d. to 3s.

Way Bree', was evict. Absolution and Extra African Line.

to 1s. 11d., and Angosturas about 2s. 3d. to 5s.

Wax, Bees', was quiet, Abyssinian and East African being obtainable at from 6l. 17s. 6d. to 7l. Of Jamaica, 25 packages sold at about steady prices, 7l. 15s. per cwt. being paid for fair colours and 7l. 10s. for dark. Fifteen mats of ordinary part foul Madagascar sold at 6l. 17s. 6d. Bleached Calcutta is held at from 3l. 12s. 6d. to 9l., according to quality. The sales in Liverpool include several parcels of Chilian at from 7l. 10s. to 8l. 16s. 3d.

American Bromine.

According to Dr. Thomas H. Norton, the bromine-wells in and about Pomeroy, Ohio, and Mason City, W. Va., have again been put into active commission, after remaining in a state of idleness for a number of years; the present monthly production will amount to 5 or 6 tons. Dr. Norton reports that it is highly probable that at an early date American makers of bromides will be able to meet the normal demands of domestic consumption. The American output of bromine has largely been concentrated in Michigan output of bromine has largely been concentrated in Michigan

and Pennsylvania, in connection with the salt-industry of and Pennsylvania, in connection with the salt-industry of those States. The total output reached its maximum in the years 1905 to 1907 inclusive. It averaged during those three years 642 short tons. In 1910 it sank to 122 tons. During the past four years (1911 to 1914) the average output was 306 short tons.

Mauritius Logwood.

Mauritius Logwood.

The shortage of synthetic dyes in this country and the United States has naturally greatly increased the demand for certain vegetable dyestuffs, which have in their turn risen in price and in some cases are proving very difficult to obtain. In particular there has recently been a serious scarcity of logwood in this country. In the past the chief British sources of supply have been Jamaica and British Honduras, but some years ago the Imperial Institute investigated the possibility of exporting logwood from Mauritius. A trial shipment was found to be of excellent quality, and in 1912 an offer to take a considerable quantity was obtained from a leading British dye firm. At that time, however, the price offered for the wood was not high enough to encourage the export, but, in view of the higher value at present ruling, the Imperial Institute has now succeeded in arranging for a considerable supply to be exported to England. exported to England.

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets under date of January 22 and 26:

AGAR-AGAR is extremely active. First strip has been sold

at m.950. ANISE.--The stocks of Russian are almost cleared. Large Anise.—The stocks of Russian are almost cleared. Large quantities of Spanish have been sold at much higher than normal prices—viz., from m.190 to m.195—which is now also becoming very scarce. Natural Russian is quoted at from m.170 to m.175 per 100 kilos.

Balsam Tolu is firmer, with demand increasing. From m.6.75 to m.7 per kilo. is quoted.

Borax and Boric Acid remain in active demand, and makers have again advanced their prices. Borax is m.180 to m.185 and boric acid at from m.255 to m.260.

CALABAR BEANS have been sold in Hamburg market at at 250 per 100 kilos.

Cantharides are not obtainable below m.40 per kilo.

Cevadilla has been in good demand, and large quantities have been sold at from m.225 to m.230.

Cinnabar.—Makers have been obliged to advance their prices by m.1 to from m.9.50 to m.9.80 per kilo., according

to quantity. CITRIC ACID has been bought of late for speculation in very large quantities; consequently, with the prohibition of exportation from Switzerland, prices have advanced again to from m.15.50 to m.16 per kilo.

CLOVES.—Zanzibar are considerably higher in consequence of active demand and increasing scarcity; fair have been sold at from m.350 to m.355.

CONDUBANGO.—Though the stocks are said to be very large still, prices are higher in consequence of increasing demand. First natural has been sold at from m.110 to m.115, and first sifted from m.120 to m.125.

Every Manilla requests in good demand at m.250 per

ELEMI.—Manilla remains in good demand at m.250 per 100 kilos, for good white.

FENUGREEK is becoming extremely scarce; the small quantities that can be had still are quoted at from m.72 to

Gum Arabic.—Good natural Kordofan is m.230 to m.235. Gum Senegal is obtainable at from m.225 to m.230.

Hydroquinone has been advanced to from m.15.50 to m.16

per kilo. by the makers. Most probably second-hand will be obtainable at slightly lower prices.

IGNATIUS' BEANS have advanced to m.200 per kilo.

IPECACUANHA is firmer and higher, and is quoted at from m.45 to m.47.50 per kilo. for Rio now, and at m.42.50 per kilo. for Contesters. kilo. for Cartagena.

KIO. for Cartagena.

KOLA is in good demand still, and is quoted at from m.135 to m.140 for African quarters, and at from m.130 to m.135 per 100 kilos. for halves, according to quality.

LEAD PREFS.—White lead has been advanced by the Syndicate by m.10 per 100 kilos to m.96.50, and white lead with oil to m.135.50 now.

LYCOPOLINI romains in a time descended.

LYCOPODIUM remains in active demand, though the prices are becoming very high, guaranteed pure being almost cleared; from m.10.50 to m.11 per kilo. and from m.950 to m.1,000 per 100 kilos, have been paid of late.

NUTMEGS are almost unobtainable; the stocks are becoming exhausted little by little. Prices are very high already, and will certainly become higher. Banda. 170 to 180 to the kilo., are from m.390 to m.400; from 210 to 220 to the kilo., from m.300 to m.310 per 100 kilos.

SENEGA has been sold at m.950 per 100 kilos, but has since

SENEGA has been sold at m.950 per 100 kilos., but has since advanced to from m.1,000 to m. 1,050 now.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name purposes of publication, but he must in all cases furnish real name and address to the Editor.

Oil-of-lemon Case.

Oil-of-lemon Case.

SIR,—I have been consulted by my clients, Horner & Sc. 14 Tower Hill, London, E.C., with reference to the consulted Bonaventura v. John Knill & Co., heard at J. City of London Court on January 20 (C. & D., January p. 122). From this report it would appear that the plant stated that Horner & Sons inspected the oil on his behalt such was not the case; neither my clients nor any in authority with them had anything to do with the mat nor had they heard of it until they read a report of action. It appears that the plaintiff got one Harry Webrook, a warehouse packer in my clients' employ, to man inspection and give evidence. This was done with my clients' knowledge, concurrence, or consent. They the fore much regret that their firm's name should have be wrongfully imported into the matter, and they totally wrongfully imported into the matter, and they totally pudiate their employé's action. I trust you will give to disclaimer due publicity in your next issue,

Yours faithfully,

ELLINGTON N. BENINGFIELD

Exists House New Broad Street F.C.

Friars House, New Broad Street, E.C.

Registration of Apothecaries' Assistants.

SIR,—I think it needs but a few words to give I Trayner a firm and proper answer to his letter, in which urges that certain apothecaries' assistants shall be gran registration as chemists and druggists. The few words be found in the latter portion of the answer to Question 3 which you quote on p. 59 (C. & D., February 5): "In interest of true efficiency the ideal thing, if you start squist to have one proper avenue." That avenue is the Socie examination. There are many assistants who do not believe the start of the same are suited as a scale of the same sca examination. There are many assistants who do not be to any Association who are quite as capable of keep open shop as either Mr. Trayner or myself, but they never be able to do so unless they pass the Society's examition. Then why let a certain few off?—Yours truly. QUALIFIED. (123/52.

QUALIFIED. (123/52).

SIR,—The mass of apothecaries' assistants should be lin the lurch and receive no consideration, in Mr. Trayne view, if only the group of apothecaries' assistants to which belongs could get something for nothing, by way registration as pharmacists without examination. Of courthis is absurd. If a few apothecaries' assistants are retered without examination naturally others holding same certificate will demand registration also. Many ye ago it became an established fact that entrance to Pharmaceutical Register was only to be obtained by passistent examinations of the Pharmaceutical Society. The pul interest and the public safety demand that this positionally be firmly maintained. The real friends of apot caries' assistants are those who urge them to prepare and pass the examinations necessary for registration and pass the examinations necessary for registration Yours truly, pharmacists. ONWARD. (126/54.

A Mysterious Measure.

Sir,—With reference to that "1826" measure about wh there was an article in the Winter Issue (p. 134), to my mit seems quite clear that it cannot possibly be a measure that was marked in 1826, for two reasons, one of whyou name—viz., that it was not incumbent to have glow measures marked at that time—and the second reason that, if I mistake not from your illustration, the mark been put on by means of the sandblast; and, although cannot say exactly when this method of marking glass virst invented, I shall be very surprised to learn that it vin use so long ago as 1826. I feel sure that the mark m be a sandblast mark, because the design has been me with a stencil, and therefore could not have been ete with fluoric acid in such a way as to leave such sharp lin Yours faithfully,

Manchester. SIR,—With reference to that "1826" measure about wh

WILLIAM KIRKBY Manchester.

Insurance Dispensing in London. SIR,—Like your East-end correspondent (C. & D., Feb ary 5, p. 58), I will not sign the contract relieving the Cc mittee from further liability for payments, and I havitten them to that effect. I would advise every chem not to sign the contract; if they do they will be treated the ame manner as the pharmaceutical deputation. There is leficiency of over 100%, still to settle on my account for but not one penny of this, I understand, can be recoved by law. The difficulty is that we chemists are fix on the panel again before the financial position is discoled. What is to be done? I suggest that chemists bring present to bear on the Pharmaceutical Society to send indiately a deputation to the Government to explain the on and obtain redress. If this proves futile, then let the ociety fight the case out in the courts to decide whether the number of the courts of the courts of the constant of the British Medical Association fought bravely and such as a constant of the courts of the cour

The late Mr. Weddell.

S,—The letter of "M. P. S." (C. & D., February 5, regarding the late Mr. Weddell is particularly interesting of Lebould like to supplement it. Mr. Weddell's p. regarding the late Mr. Weddell is particularly interesting me; and I should like to supplement it. Mr. Weddell's firs experience on Tyncside was, I fancy, when he was in chae of the Tynemouth branch of Mawson & Swam—he probly opened the place. The first Mosley Street headquagers were, in my view, about the finest out of London. It may myself in chargo for a fortnight or so. A profusion of shogany and plate-glass casing and cases; more stock in adress than I have ever seen out of a wholesale house; in o cellars row upon row of barrels of cod-liver oil. Josh Roberts, the manager, was great in the matter of the staff consisted of manager, two assistants, two apprints and the stock of perfumes; cupboards crowded, so that upo opening the door it was a clever thing to do to get who one wanted without a smash. The great fire cleared out eduraged partment, and probably saved Mr. Weddell a who sale stock of perfumes; cupboards crowded, so that upd opening the door it was a clever thing to do to get who one wanted without a smash. The great fire cleared out educated without a smash. The great fire cleared out educated without a smash. The great fire cleared out educated without a smash. The great fire cleared out educated without a smash. The great fire cleared out educated with a smash. The great fire cleared out educated without a smash. The great fire cleared out educated with a smash. The clear fire would say of him, but his natural linguistic gifts wer sufficient to place him well above the rank-and-file. The airfax manuscript was a lucky find, and Mr. Weddell was ust the man to rescue it from oblivion. Mawson, Swa & Morgan were doing some fine work at the time. I never understood that Mr. Weddell claimed the invention of p salt which bears the name of Cerebos. The name probly, and the success certainly, are his. I think the later amand Proctor had something to do with the invention if, indeed, he was not the actual inventor. An old par prainip of Swan & Proetor had existed for many years for e purpose of putting on the market some standardised opin and other preparations. While giving Mr. Weddell every and other preparations. While giving Mr. Weddell every credit, it will not be forgotten that his backer, Sir Josei Swan, was a man who knew, apparently from early year all about making money and forming companies. Althyll I received hundreds of letters from Joseph Roberts, I detor remember more than one from Mr. Weddell, but this noe is associated with a memorable incident which occured at Tynemouth—not forgetting that all this took yeal all about making money and forming companies. Althigh I received hundreds of letters from Joseph Roberts, I doot remember more than one from Mr. Weddell, but this ne is associated with a memorable incident which occured at Tynemouth—not forgetting that all this took place nearly forty years ago, and that "other times, other manns," of course. When I took over the Tynemouth brail I found among the other stock about two and a half ches of tea. There was no particular sale for this, but ther it was, and had been no doubt for some time. The first recond summer I was there in comes one evening Mrs 2, wife of a well-known Newcastle doctor long since deceed. Mrs. R. was of a type well known and not overpoper. She was very chatty, displayed a fat-looking pure and gave her order for various items, all of which "m be put in at the lowest price, because the doctor alway gets these at wholesale prices, for cash, at Grainger Stre" and so on. Then, "Tea! Have you any tea?" "Ye," "Indian tea?" "Yes." "Really good and fres!" Then follows a homily about the doctor, and his pala the aroma, etc., etc. Repeating all this two or three time an order eventuates for 1 lb. of the excellent Indian open g her purse only about T2d., so that the goods at lowe possible prices had to be booked. During the following ner Mrs. R. paid the account at one of the Newcastl shops, getting another 5 per cent. knocked off, to my ceeding disgust. Two years went by and the tea, like e eruse of oil, lasted out well—probably half a chest remed. The mice had nested in this—quite correct and prop in one corner, I noticed. The errand-boy and I had to the eye and nose the bulk was all right. However, and of this last chest, and between us killed a dozen or soff mice. But, as I say, the damage done was quite local and to the eye and nose the bulk was all right. However, and of this tea, and thought no more of the matter.

During the following autumn, however, Mr. Weddell wrote "that when Mrs. R. was staying two months earlier she bought some tea from us which they all liked so much that if any of this particular chest remained would I have it packed and sent up, as Mrs. R. wanted to secure the lot?" I have never met the chemist unable to cap this story, as I could myself, in fact; but I have thought Mr. Weddell did not enjoy it quite as much as I did the narration some time afterwards, but I did not know at the time that he was a not enjoy it quite as much as I did the narration some time afterwards, but I did not know at the time that he was a great friend, and had probably enjoyed some of the same brew. I have never since then paid much attention to amateur connoisscurs and expert tea-tasters, etc. But all these good folk have passed away. Pax cincribus!

Yours, etc.,

Nottingham.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Price of Bromide Mixture.

"In reference to the price that should be charged for the bromide mixture (C. & D., January 29, p. 183), for the past thirteen years we have dispensed a 6-oz. mixture almost identical, but without the glycerin. Up to June last year we charged 1s. 6d., then the price was raised to 3s., but now we are charging 4s. 6d. This is really too little with the present tendency of the ingredients."—
T. W. T. (119/24).

Appreciations.

Appreciations.

"I duly received your Winter Issue, and beg you to accept my very best congratulations. It is a record of scientific, industrial, and commercial infermation. Many of my French confrères to whom I have shown it admire this handsome and rich pharmaceutical publication. 'No Continental journal,' they said, 'could compete with The Chemist and Druggist Winter Issue; our English Allies alone are able, owing to their skill in making up magazines and illustrated books, to create such an interesting professional journal.' The fact is that of all Continental journals with which I am acquainted—French, Belgian, Dutch, Swiss, and even German—none is so complete, so up to date, and contains so many addresses of wholesale firms, speciality-makers, and manufacturing chemists. Three points I like especially are these: The Chemist and Druggist is a weekly newspaper; it contains the latest market prices; and foreign news, enemy as well as Allied, is published every week.'—

V. Renneboog.

Warning to Photographic Chemists.

Warning to Photographic Chemists.

Durbin's Drug-stores (Wimbledon), Ltd., send the following warning: "On Tuesday last a well-dressed man, Durbin's Drug-stores (Wimbledon), Ltd., send the following warning: "On Tuesday last a well-dressed man, accompanied by a child of about six years, came into our establishment and asked to see a 'Popular Pressman' camera, value 10t. 16s. When shown to him, he said he would take it, but, as he had not the money with him, would we let a messenger take the camera with him to his house, and he would pay the boy. The messenger went off with the man and the child, and he took him down a quiet road, snatched the camera away from the boy, and ran with it and the child to a tram at the end of the road, which he boarded, and disappeared. The police state that the man has successfully done the same thing before, and will doubtless do it again. He threw the messenger a note on the back of a quarter-plate print as he disappeared, which on the back of a quarter-plate print as he disappeared, which happened to be a print of the child he had with him, telling the boy to call at a certain address for the money. Needless to say, at the address given he was not known."

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

We do not as a rule repeat information which has been given in this section during the past twelve months, but give the reference to the issues in which the information may be found. If querists cannot refer to these, they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

W. A. R. (119/1).—The CHEMIST AND DRUGGIST is the name of a weekly journal of chemistry, pharmacy, the drug-trade, and allied occupations, supplied at 12s. 6d. per twelve months in advance. It is not an organisation for lending anybody books.

A. J. C. (124/34).—"Honey and Flowers."—See C. & D., September 25, 1915, p. 82.

Jack (115/38).—Reducing Colocynth-Pulp to very fine Jack (115/38).—Reducing Cologynth-pulp to very fine powder is scarcely an operation that can be done on a small scale, owing to the toughness of the drug. Burrstone mills, which act by friction and contusion, are employed; in these the stones are placed horizontally, one of the stones being in revolution. The irritating nature of the dust requires also special precautions, the mill being enclosed or the workers provided with respirators. The cologynth must be recently dried before powdering. Formerly the method of powdering by mediation is stated to have been employed—e.g., moistening with mucilage of tragacanth, and drying—but nowadays no foreign matter is used by drug-grinders. used by drug-grinders.

D. L. (109/42), H. M. T. (113/1), and F. S. (125/20).—We cannot undertake the identification of samples of drugs and chemicals.

T. K. (124/25).—Tollet-Cream.—This consists of tallow, white soft paraffin, and bismuth oxychloride. You will need to make a few experiments to decide the proportions. You will

W. E. M. (113/67).—(1) CHEST-AND-LUNG BALSAM:

Linseed	 	 2 oz.
Liquorice extract	 	 4 oz.
Anise oil	 	 2 dr.
	 	 6 pints
	 	 2 pints
Capsicum tineture	 	 1 oz.
Treacle	 	 6 pints
Distilled water	 	 4 pints

(2) CHILDREN'S COUGH-MIXTURE:

Ipecacuanha-wine	 	 6 dr.
Mucilage	 	 6 oz.
Anise oil	 	 2m
Nutmeg oil	 	 1m
Pennyroyal oil	 	 2m
Peppermint oil	 	 1 ա
Sassafras oil	 	 3m
Chloroform spirit	 	 3 dr.
Asafetida tincture	 	 5ա
Castor tineture	 	 10 ա
Syrup	 	 6 oz.
Squill oxymel	 	 12 oz.

Dose: 3j. to 3ij.

H. J. S. (101/45).—Odourless Ichthyol.—There are several processes by which the odour of ichthyol can be destroyed. One method was given in the C. & D., August 23, 1915, p. 61, under the name ichthoform, and ichthalbin (C. & D., March 13, 1915, p. 98) is put forward by the makers as an odourless and tasteless form of ichthyol. The following is another method devised by Helmers, who is connected with the Ichthyol Co.:

Mix 200 parts of ammonia ichthyol with 250 parts of distilled water and 100 parts of hydrogen peroxide (10 vols.). The mixture is allowed to stand in the cold until the peculiar odour of ichthyol has disappeared, and is then evaporated to a volume of 200. If the mixture previous to evaporation be of an acid reaction, it must be neutralised with ammonia. Care should be taken to avoid a large excess of hydrogen peroxide, and evaporation should take place as soon as deodorisation is complete.

A. L. T. (91/17).—Skin-ointment.—We have examined the sample of ointment which you sent, and find that it contains as a basis lead plaster and lard, and possibly some landline, the perfume being a few drops of clove oil. We have not the time to work out the proportions of the ingredients, but you should not have any difficulty in synthesising the preparation on the lines indicated above.

Rad. Rhei (124/64).—HAIR-FIXING CREAM to suit your Sabel:

Powdered			 	gr. L.
Essence o	f Parma	violet	 	mL.
Rectified	spirit		 	3iiss.
Glycerin			 	3iss.
Distilled	water to		 	3x.

Mix the essence and spirit, and with them damp the tragacanth, then add the glycerin and water, and shake well. The perfume can be increased or altered to suit your requirements.

Wales (121/21).—(1) SODIUM-SALICYLATE SOLUTION.—See C. & D., August 21, 1915, p. 60. (2) ZINC SULPHATE can be made by dissolving zinc, zinc oxide, or zinc carbonate in dilute sulphuric acid, evaporating the solution, and crystallising; but it is not a paying proposition to make the salt on a small scale.

Sealock (125/2).—RHEUMATISM-LINIMENT.—The followi is the type of liniment you require, and for general sal ne proportion of turpentine should not be too large:

Soap liniment ... 10 oz, ... 5 oz. 1 oz. ½ oz. 2 oz. Turpentine oil Tincture of capsicum Methylated ether ... Tincture of opium Mix.

H. R. (124/37).—VIOLET OIL.—The formulæ we ve involve the use of certain synthetic odours which are now available. You can, however, produce a fairly of violet oil for the hair by the use of a basis of blered expressed oil of mustard or olive oil to which is bergamot oil, cassia oil, and jasmin oil are added a he perfume. The violet oil obtained at the French perfuerarms is, however, preferable, and you will find the mixture of 2 parts each of cassia oil (No. 6), violet oil (No. 24), with 5 parts of olive oil ness a highly odorous compound, although rather expensive.

Aloin (125/15).—Terms of Apprenticeship.—It is we quite usual to pay wages to outdoor apprentices, he amount varying according to the part of the count in which they reside. Recently the rate of remuneration as advanced, so that now 50%. for a three-years' apprentic ip may be regarded as a minimum, payable, e.g., 10l. in first year, 15l. in the second, and 25l. in the third, e er weekly, monthly, or otherwise, as is agreed upon.

C. T. N. (117/20) and H. A. E. (116/40).—ELECTRIC Str.—It is acridine that is used to make this compound, but hope no chemist will supply it. There is considerable keep of prosecution if the "snuff" is sold.

Who Said This?

We have selected from famous authors things that by have said which pertain directly or indirectly to phan y or medicine. We propose to print these week by week, d we ask our subscribers to say who the authors were. le quotation printed last week was:

"Prevention is the art of policy."

This week's quotation is:

"She arrived at the drug-flavoured region of Ming Lane, with the sensation of having just opened a draw in a chemist's shop."

Tell us on a postcard who said this, giving your ne and address. We shall award a copy of Wootton's "Conicles of Pharmacy," in two volumes, or of "Pharmaceu il Formulas," to the C. & D. subscriber or his assistant of correctly gives us the names of the authors of the quotation which we publish in our issues this month, including the which we publish in our issues this month, including a Winter Issue, January 29. Replies received later than a days after the quotation is published will not have price. of choice when we come to adjudicate the prize-winner

Retrospect of Fifty Years Ag.

Reprinted from "The Chemist and Druggist," Feb. 15, 186

An Annual Treat.

The workpeople employed at the Ellesmere Patent It Co.'s works, Runcorn, had their annual treat on Month the 15th ult. The large new drying-shed was tastefy decorated for the occasion with flags and evergreens entertainment was a happy combination of tea and supland about eighty persons were gratified at the tables chair was taken by Mr. Armitage, of Altringham, principal of the company. Mr. S. Shaw Brown, originator of the festival, spared no pains to make in perfect success, and was actively supported by Mr. Bouglof Manchester, Mr. and Mrs. Kenright, of Runcorn, other visitors. After tea Mr. Armitage addressed the wepeople, and gave them some good advice in a frier other visitors. After tea Mr. Armitage addressed the wepeople, and gave them some good advice in a frier spirit. Mr. S. Shaw Brown, the manager, in a most teresting speech, gave a short history of the lint-trade the works at Runcorn. The results of the application steam-power to the manufacture of lint were illustrable many striking facts. It appears that with the aid the new patent machinery now employed at Runcorn young woman can make 3,000 yards of beautiful lint week, or more than eighty women would have made two years ago; and she gets better wages from her farthin pound than the hand-worker got from her &d. a pound

Hydrochloride, Hydrobromide.

Strychnine, Theobromine, Nicotine & Quinine Salts, Cinchona Barks & Alkaloids.

IODINE & BROMINE PREPARATIONS

Mercurials.

Refined Camphor.

CODEINE MORPHINE W. Alkaloids & Salts. Opium @ all Opium Derivatives.

elegrams : "Whiffen London."

WHIFFEN & SONS, LTD. elephones: 254, 255 Battersea. BATTERSEA, LONDON, S.W.

Codes for telegraphing: ABC; Lieber's.

- Smokers' Tooth Powder -means next to NOTHING.
- "T.M." Smokers' Tooth Powder (or paste) means EVERYTHING.
- means a real Smokers' Dentifrice.
- means a dentifrice which does for smokers that which the ordinary preparations cannot do.
- means the standard Smokers' Dentifrice, made from a scientifically worked-out formula

SPECIALLY FOR SMOKERS.

le Cream

per ozen tubes. 1/ minimum.

A.T.A.

on he Cream.

Some time ago we decided to make "T.M." the standard Smokers' Dentifrice, and this is rapidly coming about by reason of the extensive advertising to the public, the distribution of booklets, special window displays, etc., and the hearty co-operation of Chemists. Being a certain "repeat order" line, the value of these schemes for making "T.M" popular is being proved, and we will not only keep them up, but extend our activities in this direction materially. In order to avoid any possibility of turning away business, may we suggest, if you have not done so far, that you order up a trial 3 dozen.

Note the liberal profit and we help you sell it.

CHRISTYS.

OLD SWAN LANE, LONDON, E.C.

per dozen tins. 4 d. minimum.

P.A.T.A.

on the Powder.

HUBBUCK'S PURE OXIDE OF ZINC

Sold by the following Wholesale Druggists in Boxes of 7 lbs. and 14 lbs. stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles: -

Aflen & Hanburys (Lim.)
Baiss Bros. & Stevenson (Lim.)
Bell, Jno., & Co.
Bleasdale (Lim.)
Boots' Pure Drug Co.
Sritish DrugHouses(Lim.)
Brygong Burbidges & Hirst, Brooke & Hirst.
Hodgkinson, Prestons & Ward.
Honer & Sons.
Huskisson, H. O., & Co.
Lunan's Stores (of Edin.) Burgoyne, Burbidges & Co.

Cockburn & Co. (Lim.)
Corbyn, Stacey & Co.
Dakin Brothers. ((Lim.)
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher &
Webb (Lim.)
Ferris & Co.
Galasgow Apothecaries' Co.
Glasgow New Apothecaries'

Glasgow New Apothecaries Co.
Gloodall, Backhouse & Co.
Harker, Stagg & Morgan
(Lim.)
Harkness, Beaumont &

Hatrick, W. & R., & Co.

Barry, E. J., New York. Carter, Carter & Kilham, Boston. Finlay & Branswig, New Orleans. Langley & Michaels, San

Francisco.
Lehn & Fink, New
York.

Horner & Sons. Huskisson, H. O., & Co. Inman's Stores (of Edin-

boro'). Ismay, John, & Sons

Lofthouse 8c Saltmer (Lim) Oldfield, Pattinson & Co.

Oldfield, Pattinson & Co. Pinkerton, Gibson & Co. Raimes, Clark & Co. Raimes & Co. Raimes & Co. Raimes & Co. Raimes & Go. Rankin & Borland. Silversides, R. B. G. Southall Bros. & Barclay. Sumner, R., & Co. Taylor, James. Thompson, John (Lim.) Willows, Francis, Butler & Thompson (Lim.) Woolley, Jas., Sons & Co. (Lim.) Wright, Layman & Um-

Wright, Layman & Um-ney (Lim.) Wyleys (Lim.)

McKesson & Robbins, New York.
Muth Brothers & Co.,
Baltimore.
Roller & Shoemaker,

Roller & Shoemaker, Philadelphia. Schieffelin, W. H., & Co., New York. Shoemaker R., & Co., Philadelphia.

OXYDE

HUBBUCK'S PURE OXID

Is made by Sublimation, and is Warra d to contain upwards of

99 PER CENT.

Of Pure Oxide; in fact the impurities not traceable.

THOS. HUBBUCK & SO.

(Established 1765)

24 LIME STREET. LONDON,

Manufacturers of-

White Lead, White Zir, Paints, Oils, Varnishes, d. Colours.

AUSTRALIAN OFFICE -

34 QUEEN STREET, MELBOURN

The Manufacturers supply their le Oxide Wholesale only, in quantitie not less than 2 cwt.

We make a specialty of the manufacture of

GLYCEROPHOS-

IN FORM OF PURE CRYSTALS. ALSO ANHYDROUS POWDER.

MANUFACTURE WE ALSO

GLYCEROPHOSPHATE CALCIUM, PURE (Free from added acid or other impurities)

GLYCEROPHOSPHATE OF POTASSIUM 75% **GLYCEROPHOSPHATE** OF SODIUM

Monsanto Chemical Works.

ST. LOUIS, Mo., U.S.A.

Manufacturers also of Phenacetin, Phenolyhthalein, Vanillin, Coumarin and Saccharin.

Manufacturers of

VANILLI

Terpinhydrate

ALL KINDS.

Thymol, B.P.

Heliotropine

Iso-Eugeno

Oil Pimento, B.P.

Oil Oxidised Turpentine Terpinolene, &c.

ERONA CHEMICAL CO

NORTH NEWARK, N.J., U.S.A.

Cable Address; " Keystar Newark."

Code : A B C, 5th Ba

Influenza Serobacterin Mulford

Prevention and Treatment of Colds.

Colds are generally caused by attacks upon the mucous membranes of the respiratory passages, due to lowered resistance or special virulency upon the part of the attacking bacteria.

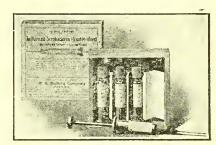
Infection is Overcome by the production of antibacterial substances (antibodies). When the affected tissues are unle to produce antibodies sufficient to repel invasion, other parts of the body may be stimulated to produce the nessary antibodies by injecting killed bacteria corresponding to those causing the cold.

Influenza Serobacterin Mulford is used in checking epidemics of colds, influenza and catarrhal inflammations of the

res ratory passages, in the prophylaxis and treatment of acute and chronic catarrhal conditions of the nose, throat and restarty passages, especially when complicated with influenza. It contain killed bacteria (obtained from many cases of colds) treated with immune sein corresponding to each type of bacteria, to render them more active in pricing immunity and to reduce local or general reactions.

Supplied in packages of four graduated aseptic glass syringes (A, B, C, D) nd in single syringes, D strength, containing killed sensitized bacteria as llows :-

								A	\mathbf{B}	C		D	
B.	fluenzæ							125	250	500)	1000	million
Sti	tococci							125	250	500		1000 :	million
Pn	mozocci		•••		***			125	250	500			million
M.	tarrhalis (gr	roup)						125	250	500	1		million
Sta	ylococci		***					250	500	1000)	2000 :	million
	ackage of 4			В,	C, D)					***			
Sir	syringe, D	streng	th	***	• • •	• • •	***	•••		• • •	• • •		6/3



Coespondence invited on Tetanus Antitoxin, Antidysenteric Serum, Typho-Bacterin (Typhoid Vaccine), Cholera Bacterin (Cholera Vaccine), for immunization of troops and nurses on active service.

AWARDED THE GOLD MEDAL FOR BIOLOGICAL PRODUCTS at the Seventeenth International Congress of Medicine, London, August 1913.

H K. MULFORD COMPANY, Manufacturing & Biological Chemists.

PHILADELPHIA & GLENOLDEN, U.S.A. LONDON-119 High Holborn, W.C.

Distributing Agents for Great Britain: THOMAS CHRISTY & CO., Old Swan Lane, London, E.C.



Important Announcement to Pharmacists

The Laboratory of

The Royal College of Physicians,

Have placed the entire distribution of their

Edinburgh,

VACCINES

in the hands of

DUNCAN, FLOCKHART & CO.

The great demand for a per'ectly reliable product is now met by these Vaccines, which are prepared by the leading Bacteriologists of the day.

Full particulars and literature can be had on application to-

Duncan, Flockhart & Co., Edinburgh & London.

The Produce Brokers Co. Ld.

BXCHANGE CHAMBERS

24-28 St. Mary Axe LONDON - E.C.

GENUINE

PARAFFINUM LIQUIDUM

B.P.

of the finest quality, refined from Russian Oils. Specific Gravity 875/890. High Viscosity.

REFINED IN LONDON LARGE STOCKS HELD SAMPLES and PRICES ON APPLICATION

Celegrams:
"Syntax, Led, London."

Telephone Nos.
Avenue 3410
London Trunk 102 } 7 Unes.

LONDON CHEMICAL WORKS, Limited.

We are the largest Producers of

Salicylates

in the United Kingdom and specialise in

Salicylic Acid

for all purposes.

Telegrams:
"Chemical."

Telephone:

SOUTHALL,

ETABLISSEMENTS CHATELAIN,

2 & 2 bis RUE DE VALENCIENNES, PARIS

Sole Manufacturers of

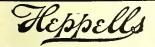
URODONAL

Dissolves Uric Acid. A Treatment for Gout, Rheumatism, Arterio-Sclerosis, etc.

Dose: 3 teaspoonfuls per day, each dissolved in a tumbler of water.

Price 7/- per bot.

JUBOL	"Re-education of the Intestine." Prevents Constipation, Enteritis, etc. Dose: 1 to 3 Tablets at bedtime. Price 5/- per box.
GLOBEOL	A Powerful Tonic. A Blood, Muscle, and Nerve-forming Agent. Dose: 8 Pills with the midday meal. Price 7/- per bot.
FILUDINE	A Remedy against Diseases of the Liver. Used in the Treatment of Malaria, Cirrhosis of the Liver, etc. Dose: 2 Tablets to be taken at the beginning of each meal. Price 11/- per bot.
PAGEOL	Sterilises the Urinary Organs. Used in the Treatment of Discharges, Cystitis, Prostatis, etc. Chronic Condition: 6 capsules per day. Acute Condition: 16 capsules per day.
SINUBERASE	A Treatment for Intestinal Disorders. Effective in Diarrhœa. Prevents Appendicitis and Infectious Diseases. Usual Dose: 12 Tablets per day.
FANDORINE	A Standard Treatment for Diseases peculiar to Women. Regulates the blood function and prevents the disorders attending the Menopause. Dose: 8 Tablets per day between meals.
GYRALDOSE	A Vaginal Antiseptic Agent. To be used twice daily for sex hygiene. Dose: 1 teaspoonful to a quart of warm water. (External use.)



BRITISH AND COLONIAL AGENTS-

Foreign Chemists, 164 PICCADILLY, LONDON, W.

Stocked by all Wholesalers. Now being largely advertised.

MALLINCKRODT CHEMICAL WORKS

OF CANADA, LIMITED.

The products of our manufacture are of the purest and highest standard We are in a position to offer to the Mother Country and Sister Colonies a full line of Pharmaceutical and Photographic Chemicals, and solicit your inquiries for

Acid Pyrogallic
Crystals and Resublimed
Acid Gallic
Trional (Methyl Sulphonal)
Cocaine & Morphine Salts

Hydroquinone
Rhodol (Metol)
Acid Tannic
Sulphonal
Hexamethylenetetramin

CABLE ADDRESS - "MALLCHEM MONTREAL."

BANDOENG QUININE FACTORIES BANDOENG, JAVA. AMSTERDAM.

QUININE AND QUININE SALTS. SUGAR-COATED TABLETS.
QUALITY AND COLOUR UNSURPASSED.

FOR SAMPLES AND PRICES APPLY TO Felegrams: "Kininefabriek Bandoeng."
"Semadmy, Amsterdam."

BANDOENG QUININE FACTORIES.

BANDOENG, AMSTERDAM, Keizersgracht 173.

PEROXIDE HYDROGEN

OF ALL STRENGTHS FOR ALL PURPOSES.

B. LAPORTE, Limited, LUTON,

also at London and Bradford.

Telephone: Luten 521,

Telegrams: "Laporte Luton"

BECKER, SHILLAN & CO., 40 EASTCHEAP, E.C.

STOCK

Salicylates

Cream of Tartar

Tartaric Acid

Tele.: AVEN. 5333. 5334.

Telegrams: "BECKDIETZ."

And at 15 STANLEY STREET, LIVERPOOL Sacra de destada de la companya della companya della companya de la companya della companya dell

pecialities

DRUGGISTS

Packed in 1 & 2 cwt. Barrels & 2 cwt. Bago

FOR HOME EXPORT.

SPECIAL QUOTATIONS given on receipt of p.c. specifying quantity.

1

d



CASTOR OIL **FORMALDEHYDE** POTASSIUM CARBONATE **ACETIC ACID DLIVE and NUT OILS... GLYCERINE** LIQUORICE JUICE

OR PROMPT AND FORWARD DELIVERY-

ACID & SODA SALICYL. HEXAMINE METHYL SAL. POT. PERMANGANATE **PHENACETIN** PHENAZONE POT. BROMIDE (Gran. & Crystals) SALOL SODA BROMIDE SULPHONAL

ND YOUR INQUIRIES TO-

HE FABRA COMPANY

MINORIES, LONDON, E.

Lloyds Bank Buildings, King Street, GLASGOW.

And at NEW YORK.



Acetic Acid

Glacial 99½% Pure 80% Technical 80%

Formaldehyde

40% by Volume.

Glycerine

Chemically pure, P.B.

Lead Acetate

White, Small or Large Crystals.

Prussiate of Potash

Red Crystals.

Permanganate of Potash

Small Crystals in Drums.

Sodium

Carbonate

Hyposulphite

Sulphite

All Pea Crystals.

Beeswax

Carnauba Wax Candelilla Wax

IG.JEWRY STREET.E.C

Cable Address:

"CELAITCH, NEW YORK."

CHAS. L. HUISKING,

5 PLATT STREET, NEW YORK CITY,

Broker and Commission Merchant.

DRUGS, CHEMICALS, ETC.

Buying and Selling Agent for leading Houses in all parts of the World. Weekly Market Reports Mailed on request of Wholesale Buyers only.

EPSOM SALTS, Druggist and Commercial Qualities. ZINC SULPHATE, Druggist and Commercial Qualities.

Prompt and forward deliveries.

Inquiries solicited.

WILLIAM BLYTHE & CO., LTD., CHEMICAL MANUFACTURERS. CHURCH, LANCASHIRE.

Golodetz Brothers

& CO.

GRESHAM HOUSE, Old Broad Street, London - E.C.

Telephone - - London Wall 4597 and 4598.
Telegrams - - "Golodetz, Gresham House, London."

BROMIDES
BISMUTH SUBNITRATE
BISMUTH CARBONATE
SALICYLATE OF SODA
SALOL
PHENACETIN
ACETYLSALICYLIC ACID
ACETANILID
SALICYLIC ACID
QUININE SULPHATE
QUININE HYDROCHLOR.
CITRIC ACID

Ampoule Files

THE GREATEST PRODUCTION
IN THE WORLD.

THE BEST. THE CHEAPEST.

Prices and Samples sent on application to— SIM LTD., Morges, Switzerland.

Major Cyril Sankey, late Royal Artillery, General Manager

HENRI PELLIOT & CIE

27 rue des Francs Bourgeois, Paris.

CREAM OF TARTAR 98/99% CITRIC ACID

TARTARIC ACID

ALL ALKALOIDS & CHEMICALS.

Telegrams: "CHARPELLIO, PARIS."

McCotter & Co.

able Address: "McCotter New York."

13 GOLD ST., NEW YORK CITY

BROKERS IN

DRUGS, CHEMICALS, DYESTUFFS, AND ESSENTIAL OILS.

GENCIES SOLICITED.

CURRENT MARKET PRICES MAILED WEEKLY TO WHOLESALE TRADE ON REQUEST,

SUBITOL

The product of an allied country PERFECTLY REPLACES

In 4 oz., 8 oz., and 1 lb. Tins, also in bulk quantities.

To be had from Wholesalers, or direct from

CHAS. ZIMMERMANN & CO. (Chemicals), Ltd. (British Firm), 9 & 10 St. Mary-at-Hill, LONDON

SANTONINE PURE CRYSTALS

Exclusive Exporter from Russia to the whole world:

I. L. GOLDBERG (Petrograd, Wilna, Odessa).

London Representative:

S. TOLKOWSKY, 84 Fordwych Road, Brondesbury, N.W.

Telephone No.: 7572 Hampstead.

STOCKS IN LONDON, PETROGRAD AND VLADIVOSTOK.

WELCH & HORNER.

Drug Merchants & Essential Oil Importers,

9-10 Jewry Street, and Carlisle Avenue, LONDON, E.C.

Telegrams-" Orrisroot, Fen, London."

We hold stock on spot and can quote to advantage for:

Aloes (Curacao), Orris Root, Spanish Ergot, Senega Root, Block Juice, Eucalyptus Oil B.P., Senna Leaves, Balsam Tolu.

CUT QUILLAI BARK Speciality

ALL POWDERED DRUGS STOCKED.

KINDLY WRITE FOR PRICE LIST.



SANTROCYL CAPSULES

Boxes of 24 Capsules

.... **12**/- per doz.

,, ,, 36 ,,

.... 16/- ,, ,,

To be obtained from: -

LONDON: May, Roberts & Co., Ltd.; Barclay & Sons, Ltd.; Butler & Crispe Sangers; Francis Newbery & Sons. GLASGOW: Brown, Gray & Co., Argyle St LIVERPOOL: Inman & Co., Dale St. SOUTH AFRICA: Aerators, Ltd., Henwood's Arcade, Johannesburg; The Transvaal Drug Co., Ltd., 51 Simmonds St. Johannesburg. AUSTRALIA: Francis Longmore & Co., Bourke St., Melbourne

Established Ferdinand ROQUES, PARIS. FACTORY: ST. OUEN.

Manufacturer of PURE PHARMACEUTICAL CHEMICALS. GOLD MEDALS: PARIS, 1889, 1900.--GRAND PRIX: TURIN, 191L

COCAIN, PILOCARPIN, SPARTEIN.

OTHER SPECIALITIES: Refined Camphor, Iodides, Iodoform, Iodothymol, Bromides, Bromoform, Bismuth Salts, CACODYLATES, METHYLARSENATES.

SOLE AGENTS FOR THE U.K. (Wholesale only):

W. CHARITY & SONS, 14 Harp Lane, London, E.C. Telephone " AVERUTE 4569. " CELARITY LANDON." Codes " ABC and LIEBER.

Since 1780 we have been continuously associated with the handling of Drugs and the manufacture of Pharmaceutical Preparations, and during the past three-quarters of a century or more have specialised in the production of ALKALOIDS, ANÆSTHETICS, ANTISEPTIC LISTERIAN and other SURGICAL DRESSINGS. Undernoted is a list of some of the articles which we can offer to advantage:—



Morphine
Codeine
Apomorphine

Aceto-Morphine

Ethyl-Morphine

Cotarnine (Stypticin)

Narcotine

Papaverine

Berberine
Emetine
Homatropine
Hydrastine
Strychnine

Veratrine

Chloroform & Ether

of highest possible purity, for Anæsthesia.

Surgical Dressings

in which uniformity of medication is guaranteed.

Surgical Catgut

in every form. Specially selected and tested.

Aloin
Caulophyllin
Cimicifugin
Chrysarobin
Euonymin
Hamamelin
Iridin
Leptandrin
Podophyllin
Salicin
Scammony
Resin

Spirituous Galenicals in bond

For Wholesale and Export only.

J. F. MACFARLAN & C?

Manufacturing Chemists :: :: Edinburgh & London.

MORRIS, LITTLE & SON, Ltd., DONCASTER

SHEEP DIPS (Poisonous and Non-Poisonous) of all kinds.

DISINFECTANT SOAPS of all kinds.

of all kinds, including LYSOL SUBSTITUTE and High Co-Efficients.

Largest Makers of Non-Poisonous Sheep Dip in the World.

Lysol I

BRITISH MADE AND OWNED.

THE MOST ADVERTISED.

THE MOST IN DEMAND.

MARSHALL'S LYSOL TOILET SOAP, in Boxes containing 3 tablets, retail 1/- Ber box

SEND FOR DISPLAY TERMS, AD. MATTER, Etc.

LYSOL, LTD., Warton Rd., Stratford, E.

TELEPHONE: EAST 892.



By Royal Warrant

То Н.М. То Н.М.

Queen Alexandra.



南

HOLDERS OF ROYAL WARRANTS DURING THREE SUCCESSIVE REIGN



Jeyes' Fluid

Best and Safest Disinfectant.

Jeyes' Parasitic Soap

(In metal boxes, 2/6 per doz.)

For destroying all body parasites in the trenches, prepared in accordance with the recommendation of a Lieut.-Colonel of the R.A.M.C.

Jeysol

Identical in composition with original German Lysol, and equally efficient.

Jeyes' Sanitary Compounds Co., Ltd., 64 Cannon Street, London, E.C.

N.B.—Prices quoted herewith are for preparations according to the New Pharmacoposia, 1914,

PRICES ISSUED WEEKLY.

ginal Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below.

N.B.—We would draw attention to the fact that all prices quoted herein are siject to alteration without notice, and that where stocks are limited preference lialways given to our regular customers.

0; English Ground, 1 cwt. @ 98/- cwt.; lbs. @ 11}d. lb. On Sepize Pulv., 1 cwt. @ 70/-; 7 lbs. @

Ot Rosze, finest, 1 oz. @ 30/- oz.; No. 2, oz. @ 21/- oz. O1 1el Scillæ, B.P., 5 cwt. @ 42/- cwt.; 1 cwt-@ 47/6 cwt.; *7 lbs. @ 8d. lb.

in, 1-80, 1 oz. @ 3/- oz.

araffinum Durum, B.P., 2 cwt. @ 4½d. lh.;

cwt. @ 5d. lb.; 56 lbs. @ 5½d. lh.; 7 lbs.

g 6½d. lb.; Molle Flav., B.P., 3½ cwt. @
5/6 cwt.; 1 cwt. @ 35/- cwt.; 28 lbs. @
d. lb.; 7 lbs. @ 5½d. lh.; Alb. B.P., 3½
wt. @ 74/- cwt.; 28 lbs. @ 9½d. lb.

Pa debyde, B.P., 1 lb. @ 17/- lb.
Pa lb, B.P., 1 lb. @ 12/- lb.
Ph tecth, P.B., pulv., 1 lb. @ 67/6 lb.
Ph lyon, P.B., 1 lb. @ 80/- lb.
Pholphthalein, 1 lb. @ 41/- lb.
Pholphthalein, Druggists', 1½ cwt. @ 26/6 cwt.;
lba. @ 43d. lb.

lbs. @ 42d. lb.

Ph bl Acetas, Druggists', 1 cwt. @ 82/- cwt.; bb. @ 10d. lb.; Powder, 1½d. lb. extra. Po bhyll. Resina, P.B., 1 lb. @ 15/6 lb. Po sa Caustica Sticks, P.B., 1-lb. Bots.

Po sa Ca /- lb.

Po. Acetas. Gran. P.B., 28 lbs. @ 3/1 lb.; lbs. @ 3/3 lh.
Pol. Blearb. Pulv., 4 lbs. @ 2/4 lb.
Pol. Brom. P.B., 7 lbs. @ :6/- lb,
Pol. Chlor. Pulv., 7 lbs. @ 1/10 lb.
Pols. Ct. B.P., 7 lbs. @ 5/2 lb.
Pol. Cyanidum, 98%, 7 lbs. @ 3/3 lb.
Pol. Loyandum, 98%, 7 lbs. @ 3/3 lb.
Pol. Loyandum, 98%, 2 lbs. @ 3/3 lb.
Pol. Math. Pulv. 1 lbs. @ 15/3 lh.; 3 lbs. @ 5/- lb.

Po s. Metablsulph., 7 lbs. @ 2/3 lb.
Pots. Permang., Cryst., 2 lbs. @ 6/3 lb.
Pots. Prussias Flav., 7 lbs. @ 4/6 lb.
Pu Cretz Arom. P.B., 14 lbs. @ 8d. lb.;
Oplo, B.P., 7 lbs. @ 2/6 lb.

Glycyrrh. Co. B.P. (Green), English sound, 56 lbs. @ 69/6 cwt. Ipecac. Comp. P.B., 1 lh. @ 7/6 lb. Jalap Comp. P.B., 1 lb. @ 2/1 lb. Rhel Comp. P.B., 1 lb. @ 1/6 lb.

Quida Chips- 1 cwt. @ 32/- cwt.; 28 lbs. @

Qu' le Bisulph., 10 oz. @ 4/3 os. Qu' le Ethyl Carb. (Tasteless), 10 oz. @ Qu' le Hydrobromas, B.P., 25 oz. @ OZ.; 0 os. @ oz.

Qu ae Hydrochlor., B.P., 25 ozs. @ 5/- or.; lozs. @ 5/2 oz. Qui ie Sulph., B.P., 100 oz. @ 4/4 oz.; 25 oz.) 4/6 oz.; 10 oz. @ 4/7 oz.

Gentian, English Ground, 1 cwt. @ 80/-vt.; 7 lbs. @ 9\d. lh.

** Tibs. @ 9\flat in.

**Ra Glycyrrh. English Ground, 1 cwt. @ 70/
**t: 7 lbs. @ 9d, lb.

**Ra pecae. Rio., 1 lh. @ 25/-.

**lalap, English Ground, 28 lbs. @ 1/6\flat lb.;

bs. @ 1/8 lb.

Ra(Rhel., E.I., English Ground, 1 cwt. @ 1/5 .; 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.
Ra Rhel., E.I. Trimmed, 7 lbs. @ 5/3 lh.; lb. @ 5/9 lb.

Res in, B.P., 1 lb. @ 82/- lb.

Saccharine, 7 lbs. @ 75/6 lb.; .550 or .500 1 lb. @ 77/6 lb.

Sacchar. Ust., 1 cwt. @ 45/- cwt.; 10 lbs. @ 6d. lb.

Saffron Valentla, B.P., 7 lbs. @ 42/6 lb.; 1 lb. @ 44/- lb.; 1 oz. @ 3/1 oz.

Sal. Acetos., 7 lbs. @ 1/9 lb. Salicinum, B.P., 1 lb. @ 22/6 lb.

Salol, B.P., 1 lb. @ 51/- lb.

Sang. Draconis, pulv., English Ground, 7 lbs. @ 2/8 lb.

Santoninum, P.B., 16 oz. @ 165/- lb.

Sapo Cast. Alb., 2 cwt. @ cwt.; 7 lbs. @ 7½d.; pulv., 1 cwt. @ 100/- cwt.; 56 lbs. @ 105/- cwt.; 7 lbs. @ 1/0½d.lh.; Animal pulv., 1 cwt. @ 70/- cwt.; 56 lbs. @ 72/- cwt.; 7 lbs. @ 9d. lh.

Scammony Resin, Pulv., B.P., 7 lbs. @ 4/9 lb.; 1 lh. @ 5/3 lh.

Shellac (Orange), 1½ cwt. @ 87/6 cwt.; 7 lbs. @ 1/- lb.
Soda Caustica, 6 l -lh. bots. @ 2/8 lb.

Soda Cit., B.P., 3 lhs. @ 4/1 lb.

Soda Sulphite, Recryst., 1 cwt. 221/6 cwt.; 7 lbs. @ 4d. lh.
Soda Sulphocarbolas, B.P., 7 lbs. 23/4 lb.; 1 lh. @ 3/7 lb.

Sodii Bromid., P.B., 7 lbs. @ 21/- lb.

Soda Hyposulphite, pea cryst., 1 cwt. @ 25/6

Sodii Salicyl, Pulv., 2 lbs. @ 22/6 lb.

*Spt. Æther Nit., P.B., 4½ lbs. @ 4/6 lh.; 1 lb. @ 4/10 lh.

,, Ammon. Aromat., P.B., 5 lbs. @ 3/7 lb.
,, Chloroform, P.B., 5 lbs. @ 4/1 lb.
Strontiæ Bromid., 1 lb. @ 22/- lb.

Strychnina Cryst. B.P., 4 oz. @ 3/2 oz.; Hydroch. and Sulphate, 2d. oz. less.

Sugar of Milk, P.B., 1 cwt. @ 87/- cwt.; 7 lbs. @ 10d. lh.

@ 10d. lh.
Sulphonal, P.B., 1 lb. @ 45/- lb.
Syr. Aurant P.B., 7 lhs. @ 11½d. lb.

", Easton, B.P., 7 lhs. @ 11½d. lb.

", Ferri lodid. P.B., 7 lbs. @ 1/6½ lb.

", Ferri Phosph. Co., 7 lbs. @ 7½d. lb.

", Hypophosph. Co., B.P.C., 7 lbs. @ 1/0½ lb.

", Hypophosph. Co., B.P.C., 7 lbs. @ 1/0½ lb.

", Thami Virg. B.P., 8 lbs. @ 9½d. lb.

", Rhami, 7 lbs. @ 1/d. lb.

", Scillæ, P.B., 7 lbs. @ 1d. lb.

", Scillæ, P.B., 7 lbs. @ 7d. lb.

", Sennae, P.B., 7 lbs. @ 1d. lb.

", Simplex ½7 lbs. @ 6d. lb.

", Tolut. P.B., 7 lbs. @ 9½d. lb.

Tolut, P.B., 7 lbs. @ 9½d. lb.

Thymol, 1 lb. @ 52/6.

Tinct. Aurantii Recens., B.P., 5 lbs. @ 4/2 lb. Aquos, 11d. lb.

*Tinct. Belladon. B.P., 5 lbs. @ 4/8 lb.

Aquos, 1/10 lb.

Aquos, 1/10 lb.

*Tinct. Benzoin Comp., P.B., 5 lbs. @ 4/4 lb.

*Tinct. Camph. Comp., P.B., 5 lbs. @ 3/- lb.

Aquos, 1/2 lb.

*Tinct. Cantharidis, P.B., 5 lbs. @ 4/8 lb.

*Tinct. Carpsici, B.P., 5 lbs. @ 3/2 lb.

Aquos, 11d. lh.

*Tinct. Card. Comp., P.B., 5 lbs. @ 2/7 lb.

Aquos, 1/1 lb.

Aquos, 1/1 lh. act. Catechu, P.B., 5 lbs. @ 2/11 lb. Aquos,

1/1 lh.

*Tinct. Chlorof. c. Morph., P.B. 1885, 5 lbs.

@ 2/5 lb.
*Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/7 lb.;
hond, 1/0½ lb. Aquos, 1/3 lb. mum quantity at these prices; Home Trade, 3 Winchester Quarts assorted;

*Tinct. Cinchon. Rub., [P.B. 5 lbs. @ 3/6 lb Aquos, 1/3 lb.

*Tinct. Digitalis, B.P., 5 lbs. @ 3/11 lb. Aques, 1/1 lb

*Tinct. Gelsem., P.B., 5 lbs. @ 3/4 lb. Aquos, 1/4 lb.

1/4 Ib.

*Tinct. Gentianæ Comp.; B.P., 5 lbs. @ 2/4½
lb. Aquos, 1/1 lb.

*Tinct. Hyoscyam., B.P., 5 lbs. @ 4/4 lb.
Aquos, 1/10 lb.

*Tinct. lodi., B.P., 5 lbs. @ 5/3 lb.; Fort. @
6/9 lb; decolor., 5 lbs. @ 5/5 lb.

*Tinct. Lavandulæ Comp., B.P., 5 lbs. @ 4/7
lb. Aquos. 1/1 lb.

1b. Aquos, 1/1 lb.

*Tinct. Myrrhæ, B.P., 5 lbs. @ 4/5 lb.

*Tinct. Nucis Vom., B.P., 5 lbs. @ 3/7 lb

Aquos, 1/4 lh.

*Tinct. Op'i, B.P., 5 lbs. @ 5/10 lb.

*Tinct. Opii Aquos, 5 lbs. @ 4/1 lb. *Tinct. Quininæ Amm., B.P., 5 lbs. @ 3/9 lb.

*Tinct. Rhei Co., B.P., 5lbs. @2/41b. Aquos, 1/1 lb. *Tinct. Scillæ, B.P., 5 lbs. @ 2/10 lb. Aquo, 11d. lb.

*Tinct. Senegæ, P.B., 5 lbs. @ 3/7 lb. Aquos, 1/6} lb.

*Tinct. Strophanth., P.B., 5 lbs. @ 4/3 lb.

*Tinct. Valerianæ, 5 lbs. @ 3/4 lb. Aquos, 1/2 lb. Aquos, 1/4 lh.

•Tinct. Zingib., P.B., 5 lbs. @ 4/8 lb. *Tinct. Zingih. Fortion., 5 lbs. @ 4/11 lb.

Treacle (Black), 24 lbs. @ 23d.1h.

Turpentine (Best American), 1 gal. tine @ 5/9 each; Venice, Genuine, 9 lbs. @ 2/- lb.

Ung. Acid. Boric, P.B., 28 lbs. @ 8\d. lb.; Flav., 28 lbs. @ 5\d. lb.

" Acid. Carbol., B.P., 28 lbs. @ 1/1 lb.\dagger

7 lbs. @ 1/2 lb.\dagger

1 lb.\dagger

Gall\alpha, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 3/10 lb.

Hudstrayer

Hudstrayer

B. 28 lbs. @ 2/9 lb. 2

" Hydrargyri, B.P., 28 lbs. @ 2/9 jb.; 7 lbs. @ 2/11 lb.

", Hydrarg. Ammon., B.P., 28 lbs. @ 1/4 lb.; 7 lbs. @ 1/7 lb.

, Hyd. Nit. Dil., 7 lbs. @ 1/4 lb.

", Paraff. Alb., P.B., 28 lbs. @ 9d. lb.; 7 lbs. @ 1/- lh.; Flav. 28 lbs. @ 6d. lb.; 1 lb. @ 1/- lh.; Flav. 28 lbs. @ 6d. lb.; 7 lbs. @ 8d. lb.

"Resinæ, P.B., 28 lbs. @ 1/- lb.; 7 lbs. @ 1/1 lbs. @ 1/1 lbs. @ 1/1 lbs. @ 1/1 lbs

" 1/1 lb.

" Sulphuris, B.P., 28 lbs. @ 9½d. lb.; 7 lba: @ 10½d. lb.

Zinci Oxid. Benz., B.P., 28 lbs. @ 10d. lb.

Wax, Japan, 2 cwt. @ 70/- cwt.; 7 lbs. [@ 9d. lh.

Zinci Oleat. Powder, B.P.C., 7 lbs. @ 2/10 lb.
Zinci Oxid., 1 cwt. @ 82 6 cwt.; 28 lbs.
9 d. lb.; 7 lbs. @ 10d. lb.

,, Sulph., pure, 1 cwt. @ 50/- cwt.; 28 lbe: @ 6 d. lb.

", Sulphocarbolas, B.P., 7 lbs. @ 3/4 lb.; l lh. @ 3/7 lb.

Export, 12 Winchester Quarts assorted, NCE.-Only terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

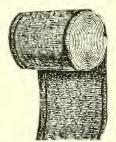
ALLIANCE DRUG & CHEMICAI CO., LONDON.

Offices: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

CREPE BANDAGES.

LIGHT AND COMFORTABLE TO WEAR,



ELASTIC, **BUT CONTAINS** NO RUBBER.

Fig. 1331—The "Saffron" Crepe Bandages, fast edges, 52 yards long when

Width 2 in. ... per doz, 7/6 ... , 9/7 3 in 9/10 13/6 Medium substance for ordinary wear Stout

hard ... Full directions for use with each Bandage.

Cotton Elastic Web Bandage ... per doz. yards, 2 in. 4/2, 2½ in. 5/6, 3 in. 6/6

Leg Bandage, 3 yards long, fitted with tapes, ready for use, each 1/10

The "Empire" Elastic Hosiery.

Stockings. Knee Caps. Anklets. Leggings... per pair 4/2 3/3 3/3 3/6
Carriage paid on orders of £2 and upwards. Cotton Elastie, ordinary quality, for hard wear 5% discount allowed for prompt eash off above prices.

We are the right House for British-made Goods, Catheters, Enemas. Elastic Hosiery, Hot Water Bottles Injection Syringes, Pessaries, Sponge Bags, Trusses Water Beds, Water and Air Cushions, Waterprov Sheeting; and every description of Rubber and Vulcanite Goods.

ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISF. I.

BURGE, WARREN & RIDGLEY, LTD.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

ABSORBENT LINTS

BANDAGES, COTTON WOOLS, GAUZE, &c. &c

Tel. Add.: "LINT PRESTON." Tel. No.: 323 PRESTON.

WHOLESALE ONLY.

A B C Code, 5th Edit s

ER

.119 Be

咖

DR A

De.

Goods supplied in various qualities.

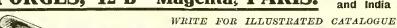
Apply for samples and prices.

VERNON & CO., LTD., Penwortham PRESTON.

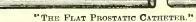
Agent: T. J. SANDERSON, 9 Fore Street Avenue, London, E.C. Tel, No. 288 London Wall.

PORGES, 12 Bd. Magenta, PARIS.

Manufacturers of HICH-CLASS Elastic Cur and India Rubber Surgical Instruments

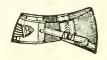


PORGES



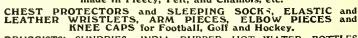
STERILIZABLE. Warranted Durable. In Black or Brown, Blond Gold, White and Grey ("the Flexible Metal").

J. H. HAYWOOD, Ltd. Surgical and Athletic Appliance Manufacturers, Castle Gate, NOTTINGHAM.



SPECIALITIES FOR WINTER.

SURGICAL ELASTIC HOSIERY, TRUSSES, SUSPENDERS, BRACES. LADIES' & GENTLEMEN'S BELTS for SUPPORT and WARMTH made in Fleecy, Felt, and Chamois, etc.



DRUGGISTS' SUNDRIES, INDIA RUBBER HOT WATER BOTTLES and COVERS, ELASTIC WEB BANDAGES, all lengths, widths and qualities.

REQUEST. **OWEST** ON QUOTATIONS AND SAMPLES



CHEMICAL GLASSWARE.



BRITISH MADE.



Manufactured by WOOD BROS. GLASS CO., Ltd., BARNSLEY.

STOCK IN LONDON.

IN TWO QUALITIES:

No. 1, for Ordinary Laboratory Purposes. No. 3, Highest Resistant.

SOLE AGENTS:

WILLIAM TOOGOOD, Ltd., 77 Southwark St., London, S.E.

PRICE LIST ON APPLICATION.

DE ROUBAIX & CASSIERS, 329 Beeklaan, The Hague (Holland). Belgian Firm lately at ANTWERP.

DRUGS. CHEMICALS AND SUNDRIES

The right address you want for

MEDICINE GLASS BOTTLES

Vials, Flats, Round-Cornered Flats, Kalis, Mexicans, Ovals, Panelled, Winchester Quarts,

in pale greenish glass only

CONFECTIONERY JARS

Stoppered, White Flint, 4, 7 & 14 lbs.

WINDOW GLASS

for Shipment to OVERSEAS only (no home trade)

PECIALITY IS SHIPMENTS TO BRITISH INDIA AND COLONIES

OLE AGENTS wanted in all the British Colonies



Mr. Radioba

The Biggest Seller of the Season!

A marvel of simplicity and utility. Enables Soldiers to have a hot, cold or shower bath in the trenches. Entirely self-contained, and so

portable that it packs into a space of 14 inches by 5 in. by 5 in.

Mr. Radioba gives a hot, cold, shower, friction or massage bath—anywhere—anytime—even in the trenches.

Mr. Radioba considerably lessens danger of poisonous germs affecting freshly received wounds. Mr. Radioba cleanses and frees the skin of all body

parasites.

Mr. Radioba prevents the bites of gnats and mosquitoes.

Mr. Radioba is the most complete and up-to-date Douche on the market.

Fixed Retail Price, £1 1s. 6d.

Trade terms, and full particulars from the Sole Manufacturers

The Townley Manufacturing Co. LONDON, E.C. 294 City Road

loc

Bu

and

love

PH

"SANOID" HOT WATER BOTTLE COVER.

(GERRARD'S PATENT).

WOOL - LINED

QUILTED

RETAIN THE HEAT



COMFORTABLE in USE
GIVE SATISFACTION
WEAR WELL

IN THREE COLOURS, PINK, RED AND BLUE.

8×6 **5**/- 10×6 **5/-** 10×8 **6/-** 12×6 **6/-** 12×8 **6/-** $\frac{12 \times 10}{7/6}$

14×8 **7/6** 14×10 **9/-**

14×12 9/- doz.

CUXSON, GERRARD & CO., LTD., OLDBURY

ROBT. BAILEY & SON,

Clegg Hall Mill,

Telephone:
114 Littleborough.
Telegrams:
BAILEYS, SMITHY BRIDGE.

SMITHY BRIDGE, LANCS === Eng.

MANUFACTURERS OF

SURGICAL DRESSINGS ABSORBENT GAUZE TISSUE, COTTON WOOL, BANDAGES, LINT, TOW, &c.

PATENT FOUR-PLY GAUZE. SANITARY TOWELS.

BRITISH MADE

AND

BRITISH OWNED

WHOLESALE ONLY. Write for Samples and Prices,

LOOFAH SOCKS

EACH PAIR IN A BAG AND EVERY DOZ, IN AN OUTER—

30/- PER GROSS Net Monthly.

LESS 5 % Cash 7 days

SALE - GETTING SHOWCARDS SUPPLIED

MADE IN BRITAIN BY BRITISH LABOUR

INSIST ON HAVING THE BRITISH-MADE ARTICLE, AS HITHERTO 90% OF THE LOOFAH SOCKS SOLD HAVE BEEN MADE IN GERMANY

J. MORGAN DAVIS & SONS, ESTAB. 1838. 278 Bishopsgate, London, E.C.

LOOFAH SOCKS

The Original and only Genuine

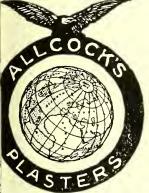
Allcock's

PLASTERS

A REMEDY OF 60 YEARS' STANDING.

Ilcock's Plasters
Ilcock's Corn and
Bunion Plasters
randreth's Pills

The Three Reliables



ON P.A.T.A.

Prices and Terms on application to

ALLCOCK . , MANUFACTURING COMPANY . .

22 Hamilton &q.,
Birkenhead.

Sold all round the World."

This space reserved for the

PEERLESS SEAMLESS RUBBER CO., Limited, RICHMOND, SURREY.

Novelty in Foot Warmers

really High - Class Line PHARMACISTS

ade of finest

**hite Ivory China,
as superior inis those utilly sold Ironmegers, &c.

FRES:

2 nt,

27 doz.



Has no corners, therefore more comfortable for patient.
Looks smart in a Chemist's stock.

PRICES: 4-pint, 33/- doz.

Tons, carriage forward, packages containing 1 dozen assorted sizes, 2/6 each (NET), not returnable.

Tomas Swales, 24 Butts Court & Leeds. Sep Albion St., Leeds. Celephones—Central 3702, Leeds; Headingley 406, Leeds.

wounds and for sore feet.

Sphagnol Soaps and Ointment have been awarded the Institute of Hygiene's Certificate for Purity, Quality, and Merit.

DISEASES

HE successes achieved by Sphagnol and

confirmed by medical practitioners place

it right in the forefront as a remedy for Skin

diseases. Severe and obstinate cases of Eczema

yield to its application. It is prescribed by

doctors for Eczema, Psoriasis, Acne, Herpes,

Ulceration of the Ears, Blepharitis, Ringworm,

Dandriff, Hæmorrhoids and Pruritus. Sphagnol is being used also as a First-Aid dressing for

WOUNDS-SORE FEET

Chemists are cordially invited to write for full particulars and free samples.

PEAT PRODUCTS (SPHAGNOL) P
19 Queenhithe, Upper Thames St. London, E.C.

FREDK. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

E. CRAWSHAW & CO., 56 Great Dover Street, S.E. ANILINE DYE MERCHANTS,

are still selling their well-known Aniline Dyes to retail in Penny Packets.

Telephone: Hop 4992.

Teleg. Address: "Cachous London."

DISINFECTANT

E. BRAMWELL & SON, Ltd., ST. HELENS, Incs.

Lightest and Whitest, also Purest Disc.

APPLY TO

AUG. LEVERMORE & CO. Ltd., 8-10 Gt. St. Hons, b.

Telegrams: "-LEVERMORE LONDON." Telephone: 4613 | tral.

Precipitated Chalk, Hyposulphite of Sol, Sulphite of Soda, Glauber Salts, Epsom 4ts,

Salts of Tartar, Alum, Sulphite of Lin Sulphide of Sodium.

OF ALL KINDS

Cheapest Makers of Co-efficient Acids and Fig a 7

HENRY ELLISON, LTD., CLECKHEATON, DRKS

Dentistry

FOR CHEMISTS & DENTISTS

Write for Price List A.G.FENTIMAN
190, BISHOPSGATE, LONDON, E.C.

Sheet Metal Work

in Brass, Copper, Zinc or Tinned Steel, for the Chemical Manufacturing Trades.

No matter what your requirements are, if it's a Sheet Metal job communicate with

A. CREEN & CO., 56/60 Chapel St., Salford, Manchester.

WILL VERNON & SONS

"Lister" Surgical Dressing Factory,

MANUFACTURERS OF

Abserbent Lint, Cetton Weel, Bandages, Wood Wool, etc.
Telegrams: "SPINDLES PERSTON."

TOBACCOS! CIGARS! CIGARETTES!

Every known Brand at Manufacturer's own List Prices. Endless variety of Tobacconists' Fancy Goods & Shop Fittings. The Trade only supplied Opening orders a Speciality. Send for Price List.

SINGLETON & COLE, Ltd., Cannon Street, BIRMINGHAM,

SURGICAL RUBBER & VULCANITE

GOODS of every description.

CAVE & HIGGIN, LTD., 265 Deansgate.

RUBBER GOODS

(For ALL KINDS of SURGICAL)

Try JAMES TOMPKINS, LTD., Rubber Manufacturers, 386 CITY RD., LONDON.

BSTABLISHED 1877.

TENTE ELECTRICATION,

WE HAVE STOCK AND INVITE INQUIES.
Hospitals and General Contracts Compan Ltd.

19 & 21, 25-35 MORTIMER STREET - LOND, W.
Phone: MUSEUM 3140. Telegrams: "Contribute"

Send for Trade Price List of MECHANICAL DENTISTIY

TC

TEMPLAR MALINS, LTI,
51 Queen Street, CARDIFF.

CACHETS PELTO

Carriage Paid on orders of 5000. Write for Sample SOLF CICERO S. CLARK, Pharmacie Française, 12 Riching Control of Control of the South Cicero S. CLARK, Westbourne Grove. Lond

Send for Revised Price List.

ROYLANCE & Dental Mecbanics.

Castle Chambers,

Hounds Gate, NOTTINGHAL

BAINES' LIQUID DIELECTED AND DIELECTRIC UNGUE'.

For the rapid arrest and cure of Local Pyrexia in all its forms including Pleurisy. Pneumonia. Neuritis, &c. &c. Invaluable in Rheumatoid Arthritis and Gout. Prepared and Sold to the Medical Profession and the Drug Trade only by the Sole Manufacturers.

DEIONS, LTD., 220 Tower Bridge Rd., LONDON, Telegrams—"Deionisers, Berm, London." Telephone—Ho; 5



ALEXANDRE'S SHADEINE

FOR COLOURING GREY HAIR.

This popular article is largely advertised and stocked by all Wholesale Houses. TRIAL BOTTLES 6d. size, supplied on pretty showcards, 46 doz.; 1/- size, 10/- doz.; 8/6 size, 30/- doz.

58 WESTBOURNE GROVE, LONDON, W.

Horn and

-LODON AND NEW YORK-LUBRICATING JELLY

IN COLLAPSIBLE TUBES AND OF fan orn "Sterile Sutures and Ligatures

IN GLASS TUBES - PRICES ON APPLICATION TIG 1 MCLBO N W G

Vesseines, Zinc and Boracic Ointments, Oold Oream, and si. Vaselines, Zinc and Boracic Ointments, Oold Oream, res. Coo-Nut Oil Pomades, in all sizes.

PECIAL NEW PREPARATIONS.

COMPLEXION WAX OINTMENTS.

LE YRMS FOR WHOLESALE EXPORT and SHIPPING TRADES, and CASH WITH ORDER CUSTOMERS.

Wholesale Manufacturing Chemistr.

ERS, 56 & 58 CHAPEL ST., MANCHESTER.

TOO LATE

and ait-and-see, and such-like expressions are the curse of any siness. See them, and adapt this motto, "Do it Now," and get once a POSTAL ORDER FOR 3/6, and we will send you ign id, Ni-Verre Hair Shampoo, VALUE FOR 7/- NET. It will be st you post paid with advertising. ONE GROSS NI-VERRE will sent at this price to new accounts only. CASH WITLINGER. Address now—

MERRE CHEMICAL CO., 5-7 ORMEAU AVENUE, BELFAST.

LACTIC ACID. CITRIC

FOR SPOT DELIVERY.

Hary Heymann.

5 Union Street.

Bradford.

CHEMISTS

"FINOT" CACHETS

(White Coloured), With inscriptions in any desired tint; also Plain or Embossed. White

"Beautifully made, and the inscriptions give them a distinction all their own,"—C. 4 D.
"Perfection of Cachets."—Lancet.
These Cachets are especially adapted for Headache, Neuralgia and other powders.

COOPER, SON & CO., Ltd.. 80 Gloucester Road, SOUTH KENSINGTON.

HERM. MADOERY, BASLE (Switzerland)

CHEMICAL WORKS FOUNDED 1902.

SWISS FIRM. Specialities, Pharmaceutical Products:

Silver Salts Vanillin 100% Diethylbarbituric Acid

Quinine Salts Sulfothyol **Albuminate Tannic**

HAIR BRUSHES. TOOTH BRUSHES. NAIL BRUSHES. SAFETY RAZORS. The GALEN MANFG. CO., Ltd.

Wilson Street, New Cross, London, S.E.

JOHN E. RAWORTH

CHARTERED PATENT AGENT.

PATENTS, TRADE MARKS AND DESIGNS.

OLD MANSION HOUSE, and QUEEN ANNE'S CHAMBERS, 73 Cheapside, E.C. WESTMINSTER, S.W.

INVESTIGATE

The Py-Shan Points Co-operative Sales plan—we think it will interest you. It has a regular weekly sale, gives 5d. per lb., profit, and sales are confined to chemists. Just a card for particulars now to

CHRISTYS, OLD SWAN LANE, E.C.

BOXES

Any Size: any Quantity. One Quality only- THE BEST. Send us your Samples or Sizes and we will quote you by return.

J. DAVIDSON & CO., 98 SHEPHERDESS WALK, CITY ROAD, LONDON, N.

RITISH RODUCTS.

Vhen the prices of nearly all sedatives and hypnotics have advanced considerably, we may pardoned for calling attention to the fact that the price of "Nepenthe" remains unaltered.

HE SAFEST BEST PREPARATION

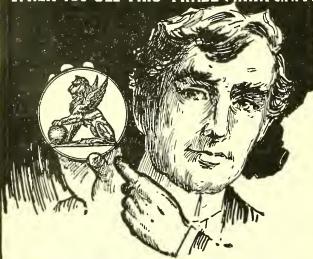
NEPENTHE in 2 oz., 4 oz., 8 oz. and 16 oz. bottles.

LYCEROLE OF NEPENTHE (eight times the single strength) for hypodermic injection. In 1 oz. bottles. EPENTHE SUPPOSITORIES in four strengths. Equivalent to $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$ and 1 grain Morphia.

The word "Nepenthe" is registered under the Trade Marks Act, and is our exclusive property No substitute may be dispensed when "Nepenthe" is ordered in a prescription.

COMPY., LTD., BRISTOL. ERRIS &





you know you are gettle the ORIGINAL — GENULE

HERBS IN PACKETS

These Packets have the largest sale in the United Kingdom, by reason of their Pty and Reliable Contents

Put up in

d-gross
cardboard
cartons.
7/- per gross
net.



POTTER & CLARKE, Ltd.,

Drug Merchants, Manufacturing Chemists, Importers of Herbs, Roots, and Barks,

60, 62 & 64 ARTILLERY LANE, LONDON, E.

And 24 LUNA ST., GT. ANCOATS, MANCHESTER.

Headquarters for New Season's

CAMOMILES,

LAVENDER FLOWERS,

POPPY HEADS

HONEY.

POTTER & CLARKE, Ltd.

60 & 64 Artiflery Lane, London, E.

POTTER & CLARKE, Ltd., 60-64 Artillery Lane, London E. Also at 24 LUNA STREET, GT. ANCOATS, MANCHESTER.



OFFICE: 42 CANNON STREET, E.C.

SATURDAY, FEBRUARY 12, 1916,

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers) and to ensure prompt insertion. REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)



That is what advertisers in The Chemist and Druggist Supplement secure. Not in-

definite returns from spasmodic and inflated circulation, but regular, steady success—the best possible in the Drug Trade. It gives

IT PAYS TO PAY THE PUBLICITY

CHEMISTS' TRANSFERS.

Mssrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

AYFAIR (Death Vacancy) .- Price £300; neglected Busi-1.—AYFAIR. (Death Vacancy).—Price £300; neglected Business, spensing and Retail; now doing about £900, and capable of consideble expansion; look-up Pharmacy, fully stocked; profits aboveix average of Retail trading.

2.—NDON, W. (Death Vacancy).—Good ready-money Retail; no opsition; returns £600 under manager; look-up Pharmacy, fairlyell fitted and fully stocked; smart, pushing man would do we valuation only required.

do we valuation only required.

3.—DNDON SUBURB.—Ready-money Business and own Proprieties; position is exceptionally good, and returns can be increase present rate between £2,400 and £2,500; only requires attention to develop well; valuation terms and part Payme entertained.

4.—ENT (Busy Locality, Few Miles from Town).—Ready-money Busing; steadily increasing returns, now about £20 weekly under Assistit; profits large; rent £32; vendor's own property; price £400.

5-DNDON, S.W.—General Cashi Retail for immediate Disposal for le than value of stock and fixtures; returns £6 per week, with personal attention; price £100, or near offer; ill-health for disposal.

5-DNDON, S.E. (Residential Suburb).—Compact Retail and Dispeing Business; returns £900, at good prices; no opposition; at £50; 8-roomed house with garden; price £275 on entry and lance, £175, by instalments.

7-ENT (25 Miles from London).—Middle-class Business (all east) splendid opening for Optics and Dentistry; returns about £650 net profit £200; price £250; nearest opposition one mile.

8.—FASHIONABLE SEASIDE TOWN (Death Vacancy).—First-class Retail and Dispensing Business, situate in large, good-class town; position unique; returns average between £1,400 and £1,500, present rate, under manager; further details on application.

9.—NORTH OF ENGLAND.—To be sacrificed for £250, an excellent Retail and Dispensing Business, giving a clear yearly income of £300; capital business premises, well fitted and stocked; vendor retiring.

vendor retiring.

10.—SEASIDE (Yachting Contre).—Well-established Country Business, Retail and Dispensing, for Disposal through death; returns £1,500 (about), at full prices; net profit estimated at over £350; comfortable house; rent £22; price £800.

11.—NORTH OF ENGLAND.—For immediate Disposal, Wholesale Business, comprising Packed Proprietaries, etc.; returns about £1,600 yearly; further details on application.

12.—NOTTS.—Light Retail, Dispensing, and Photographic trade; returns between £1,000 and £1,100; net profit £250; rent £35; about the value of stock and fixtures required.

13.—HOME COUNTY (Charming Locality).—A good General Country Retail for Disposal; price £500; no opposition; returns £900, at good prices; good residence with private entrance and outbuildings; full investigation invited.

14.—SUSSEX.—First-class Country connection, in good district;

14.—SUSSEX.—First-class Country connection, in good district; returns exceed £800; net profit £300 (proof given); comfortable-residence with private entrance and small garden; practically no opposition; price £750.

VALUATIONS

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

"elegrams, "Brett Leicester."

Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS. NO CHARGE TO BUYERS.

AGENCY.—We have always a large number of Buyers on our books, and we can frequently find a purchaser at once. We also have a Private Register for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£1,100 returns .- Essex .- Light Family Retail and Dispensing, with Optios; low rent on lease; price £600, or £100 goodwill and stock and fixtures at valuation.

2500 to £600 returns.—London suburb.—Good-class Retail in felightful suburban district; now doing £12 per week, and capable of considerable increase; well-fitted double-fronted shop end nice house; valuation about £350.

£450 returns .- Near Manchester .- Light middle-class Retail; good opening for Optics; valuation about £250; can reduce stock.

21.100 returns.—Yorks.—Fine position of town of 50,000; plenty of scope for smart man; valuation £500 to £600, or would eccept Partner to take whole charge.

£1,000 returns .- Lancashire .- General Retail at good profits; raduation about £400.

Valuations conducted upon the shortest notice at moderate fees.

PARSON C. BAKER 1 MOUNTFIELD ROAD, CHURCH END, FINCHL', N.

BRITISH DRUG HOUSES, L MEGGESON & CO., LTD. BARCLAY & SON, LTD. Recommended by-

Tel. No. Finchley 812.

All correspondence should be addressed as above
And at 174 VICTORIA ST., S.W., Ph G. Tel. No. Vicia 7

Valuer to Association of Manufacturing Chemishas Businesses for Disposal on East, South, and We Costs besides numerous others in various parts of the country Several Pharmacists are disposing of very desirable ances that they may be able to join the Forces abroad. Some globusiness that can be largely increased. Some in hands truther they may be able to a south a sold quickly, and, the business that can be largely increased. Some in hands truther they may be sold to business that can be largely increased. Some in hands truther than the same in the sold quickly, and, the business, are very desirable concerns. Old-established principles, are very desirable concerns. Old-established principles, are very desirable concerns. Old-established principles in Lincolnshire.

Purchasers are requested to send particulars of their question and the amount of capital they are willing to it.

No Charge Whatever to Purchasers.

P. C. B. makes a speciality of examinations and rates businesses on behalf of purchasers and arranges the antes on very moderate terms.

THOS. TOMLINSON & SIN

CHEMISTS' VALUERS, TRANSFER / GEI AND EXPERT STOCKTAKERS, 45a MARKET STREET, MANCHESTER. ESTABLISHED OVER HALF A CENTURY. Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colo I and Foreign Subscribers to the fact that in cases who the require partners, agents or assistants, or wish to businesses, an advertisement in this Supplement laced in every copy of "The Chemist and Druggist," s ld be the readlest means of helping them to attain the bleet The tariff for such announcements is given under the ppropriate headings in the Supplement. Instructione demittances can be sent to us direct or through the dver tisers' correspondents in this country.

VALUERS & TRANSFER ACENTS.

35 Jewry Street, Fenchurch Street, City. Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—EASTERN COUNTY.—Good-class Cush Retail, with Wines and Spirits, returning between £3,500 and £4,000, with plenty of scope for further extension; splendid position; very heavily stocked; illness sole cause of selling; price required £2,000; strongly recommended.

2.—KENT.—Unopposed good-class Country Retail, delightfully attuated; returns about £1,000; books properly kept; nice house and garden; well-stocked shop; price £500; good introduction.

3.—WILTS.—Old-established General Country Retail; unopposed; seturns £1,200; net profit £500; large house and garden; low cent; heavily stocked; price £700.

4.—SCARBOROUGH (Death Vacancy).—High-class Retail and Dispensing; much neglected; has done £1,100, last year £700; the position; handsomely fitted, fully stocked; low price accepted to close estate.

to close estate.

5.—MIDDLESEX.—Good-class Retail and Dispensing; pleasnftly druated; returns over £1,500; net profit £400; handsome modern pharmacy, well stocked; price about £900.

6.—DEVON.—Genuine unopposed small Village Business; plenty 4 scope for increase; net profit £152; large house and garden; modern-fronted pharmacy; price £175; suit unqualified.

7.—LONDON, S.E.—Good-class Suburban Retail; returns £1,450; good profits; books well kept; excellent premises, well stocked; price £850, or valuation terms.

8.—NORTH LONDON.—Brisk Cash Retail; returning £1,036; set profit £350; modern pharmacy; no immediate opposition; well stocked; price £500.

9.—LONDON, N.W.—Middle-class Cash Retail, in busy main street; returns over £1.100; low rent; good house and garden; well-stocked Pharmacy; illness sole cause of selling; price £475; strongly recommended.

STOCKTAKING v. INCOME TAX.

Every chemist should make a point of reading page 135 in C. & D. Diary, which deals with the above matter, and then write for our special pamphlet and low terms. Forty-five years' practical experience.

BUSINESSES FOR DISPONI

3s. 6d. for 50 words or less; 6d. for ever, 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have plot addressed to this Office, and forwarded on paymen additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter in no case be forwarded, the Box numbers being intended ex ivel for specific answers to particular advertisements. The P lake reserves the right to open and refuse to forward any con ale tions received which he may consider contrary to this ru

BIRMINGHAM.—Cash Retail Drug and Drysaltery Busl Sale; established 21 years (present owner 21 years); estimates stock, roughly, between £600 and £700; fittle tures, and goodwill £120. 128/17, Office of this Paper.

DOVER.—Medicine and Fancy Goods Stores; main opposite Hospital; established 1842; modern shop tings; must be sold through death of proprietor; splendid for one with limited capital; lady or gentleman. Apply White, Estate Agent and Valuer, 7 Folkestone Road, Dovel

HOME County.—Old-established, good-class Country Busi Disposal in thriving market town; returns over £2.5 profit £500 after paying all expenses; good house with garden; excellent stock; price £1.500; most genuine c fullest investigation courted. Address, 215/37, Office Paper.

ONDON Suburb.—For immediate Disposal, old-est Business on main road; lease 21 years, 16 to run; rent £52 let off; comfortable house, private entrance; insu £1,000 against all war risk; price £450; valuation of strutures £600, temporary decrease in returns owing to wal low price asked. Can be viewed by appointment after 8 to "Ebor" (128/30), Office of this Paper.

ONDON (Near).—Retail and Dispensing; same hands years; returns about £17 weekly; good profits; con house; moderate rental; a good going concern with set increase; opening for Dentistry and Optics; cash purchase entertained. 214/17, Office of this Paper.

RTH IPTONSHIRE.—Small, good-class Business for Sale of death of proprietor; has been in same family 85; at ble of increase by energetic man; opening for Photography at Optics; good house, garden, and warehouses; good; ririns for last three years furnished. Apply, 214/2, of is Paper.

BBR RY 12, 1916

TH London.—Established Business in centre of busy nark; returns £1,400 to £1,500 under manager; good med; trade; scope for great increase; valuation of stock ixtu only, or will accept £700 cash; part money could n; t l allowed. 212/320, Office of this Paper.

SEX Established 10 years; average returns last three ears 930; Light Retail and Prescribing; splendid chance an will do N.H.I. work; all-the-year-round working-cashusiness; splendidly fitted and stocked; price £600; ann in. "Herbert," 19 Thornhill Road, London, N.

RKS Vest Riding).—A good-class Business for Sale in resident town; Dispensing, Proprietaries, and Photographic; ttedad well-stocked shop in main shopping street; returns \$1.0; good reasons for disposal. Apply, 213/32, Office \$ Pc.

RKS RE.—Rare chance of obtaining smartly fitted Drug tore i thickly populated neighbourhood; one Chemist only one mile; low rent; garden; owner unable to give ion; acrifice for quick sale, £55. Address, "R. H. F." 5), (ce of this Paper.

of Middlesex and Hertfordshire.—Old-established Busics (never changed hands); working-class Cash trade; so user manager £2,400; low rental; good lease; under teter ade could be doubled; valuation of stock and fixtures asked part cash could remain; trial of management with opulase entertained. Apply, 212/32, Office of this Paper.

H or desired for a Chemist's Postal Connection; advering interested in an export business, has not sufficient at hidisposal to attend to both; would prefer to sell to a n Claist doing a postal business with which above could corpored. 214/24, Office of this Paper.

TH acancy.—For Disposal, with immediate possession, old-established Country Chemist's and Drugg'st's sass; years late proprietor. Apply, "A. T. H." (126/35), of tl Paper.

Sal old-established Business; lease; goodwill; trade-mark; well own Proprietary Articles; death cause of sale. ss. "9 Baden Road, Hornsey, N.

Opportunity.—Established 30 years; flourishing town liery district, South Wales; good opportunity for endeady and Proprietary Medicines; over £1,000 turness doubled by capable man, Photographic specialist; case well-fitted shop, good windows; satisfactory reasons to genuine inquirer. 215/31, Office of this Paper.

ATIVE Investment.—Store at Military Camp for ale ong to enlistment; turnover considerable; very profit-can worked single-handed; hours short; suit unqualified or geleman; expenses extremely low; full value is given ice ced. "Camp" (214/40), Office of this Paper.

ND cestablished Chemist's Business in good market town. Lincoshire, with excellent opening for Dentist, no resident being in the district; turnover £550 yearly under manament; rent only £12; valuation of stock and fixtures requil. Apply, Aubrey & Co., 10 Duke Street, Charing Lonn, W.C.

ELL ted and stocked Drug Stores for Disposal, under lady mana ment; husband at the Front; fent £40 and rates; bigman, 153 Eardly Road, Streatham, S.W.

BISINESSES WANTED.

ARM IST is desirous of Purohasing a good-class Business in We End, yielding a net profit of not less than £300 per a (up) £600). Kindly give preliminary details to "Chear (2153), Office of this Paper.

LL, od-class Business in healthy district; country district ntertiled; good price if suitable; cash ready; Midlands West idlands. Particulars, in confidence, to "Pharmacist" 34), fice of this Paper.

FOR SALE.

BARGAIN.—Nearly new Cash Register for Sale; self-totalling and prints all sales; No. 348. Write, "8. B.," 149 Hill street, Pockham, S.E.

FOR Sale, an excellent Remedy for Gout, Rheumatism, kindred diseases, a Medicine and Embrocation, having been supplied locally in Bournemouth for four years with great success and numerous testimonials from all classes; fully protected with trademark; would sell the whole or part; a great success. 16 Hankwood Road, Boscombe.

POR Sale (second-hand), Mahogany Desk, Maw's Fig. 21W; Dispensing Screen, Maw's No. 29W, ebonised backs, movable cbonised shelves; 4 Iron Standards, Brackets, and 12 Plate-glass Shelves (6 Polished); 3 Swan-neck Carboys, large cut stoppers; Maw's No. 12 Pestle and Mortar; quantity of Shop-rounds. Call at 86 Harrow Road, Paddington, W.

CTOCKTAKING.—1 gall. Ol. Morrhuæ (A. & H.), 148. 6d.; 1 owt. Hypo, 198. 6d.; 6 Guycose (stamped 3d.), 188. 6d.; 2 oz. Virgin Otto Opt., 288.; gr. 120 Round Pessary Mould (6), 15s. 6d.; 24 1-gr. Pill Machine, 14s. 6d.; Dispensing Scales (Maw's 1919), 14s.; 3 gross Blue Enamelled Tooth-powder Tins, 3; in. by 1 in., 27s.; 1 oz. Amidol, 2s. 6d.; 1 oz. Euquinine, 10s. 6d.; 1 gramme Pot. Chloroplat., 4s.; 1 oz. Adurol, 3s.; ½ oz. Chloralose, 4s. 6d.; 1 oz. Citarin, 2s. 3d.; 1 oz. Loretin, 3s. 9d.; 72 Euredin Pills, 3s.; 1 oz. Atophan, 4s. 6d.; 1 oz. Jothion, 4s.; ½ oz. Salophen, 5s. Williams, Chemist, Heath Street, Hampstead.

PARTNERSHIPS.

PATENT Medicine (Established).—Lady or gentleman Partner required, £500, third share with services. Write, "Goot" (210/21), Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replied addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, camples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

RETAIL.

BALHAM, S.W.—By March 6, Assistant with good experience; ineligible for Army; abstainer; Dispensing and Photographic knowledge; good salary to desirable man; application by letter. Cooper, Chemist, Balham, London, S.W.

BATH.—Wanted immediately, Assistant for good-class Dispensing business, temporary or permanent; outdoors; good salary. Apply, with full particulars, Davies & John, 15 Old Bond Street, Bath.

BEDFORD.—Reliable qualified Manager wanted for Branch; outdoors; hours 8.30 to 8, Saturdays 10, Thursdays 1 o'clook. Please send full particulars first letter, E. Murray Carruthers, Chemist, 31 St. John's Street, Bedford.

BIRMINGHAM.—Assistant wanted; outdoor; Counter and Dispensing; good writer preferred; hours 8.30 to 7.30; no Sunday or Bank Holiday duty; salary 35s. to commence; please send photo. Apply Mr. Wakefield, Pharmaceutical Chemist, 11 Highfield Road, Edgbaston, Birmingham.

GRAVESEND.—Junior Assistant (ineligible for military service) for a medium-class business; outdoors; send full particulars, with salary required. Apply, E. Millhouse, Gravesend.

, 1916

RNE HILL, S.E.—At once, smart Junior or Improver, with knowledge of Photography and Dispensing; outdoors. G. W. G. Robinson, M.P.S., 307 Railton Road, Herne Hill, S.E.

HEXHAM.—Assistant wanted, immediately if possible, for Counter and Dispensing. Bell & Riddle, Analytical Laboratory, Hexham.

HULL.—Wanted, Drug-store Manager, unqualified, for quick Cash trade; must be smart Counterman, Prescriber, Photographic, and Window-dresser; hours 8.30 to 8 p.m., 1 p.m. Thursdays, 10 p.m. Saturdays: no Sunday duty. References and usual particulars, Bakers', Ltd., The Up-to-Date Pharmacy, 9 Midland Street, Hull.

TLMINSTER.—Assistant for country business; one ineligible for the Army essential; short hours; good salary. Apply, with full particulars, age, experience, etc., to Harold J. Parsons, Dental Chemist, Ilminster.

KENT.—Qualified Manager required for a well-established and progressive business; must be about 42 and have had good all-round experience; good agreement offered to the right man. "K." (215/100), Office of this Paper.

ONDON Stores (Branches West Central. North and East).—Four alert unqualified Assistants wanted at once; hours 9 to 9.15; hatf-holiday and one afternoon or whole day; state terms and particulars; Assistants will be required to take duty any Branch when required; permanency with excellent prospects to good men. 216/5. Office of this Paper.

ONDON, N.-Wanted, an Assistant with good all-round experience for a middle-class Retail with N.H.I. Dispensing. Apply, with full particulars of experience, names of references, when disengaged, and salary required (in or out-doors), "Chemist," 115A Stoke Newington Road, N.

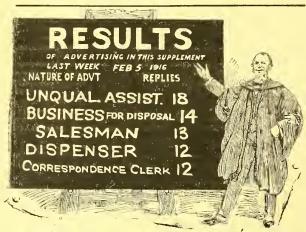
ONDON, N.—Manager; live over shop; knowledge of Photography essential; one having knowledge opties preferred; state salary and enclose photo; one whole day holiday weekly. 214/6, Office of this Paper.

ONDON. N.W.—Competent Assistant (ineligible for Army), for good-class Retail and Dispensing; usual particulars. 213/33, Office of this Paper.

I ONDON, S.E.—Qualified Manager required for Dispensing and good-class Retail; also unqualified Assistant; hours 9 a.m. to 10 p.m.; alternate Suuday duty; both ineligible for military service: state age and salary required. Apply, 214/33, Office of this Paper.

T. ONDON, S.W.—Assistant wanted for good-class Retail and Dispensing; outdoors; hours 9 a.m. to 9 p.m.; Saturdays 10 p.m., half-day Wednesdays; state age, experience, salary required. Lloyd. 125 St. John's Hill, Clapham Junction, S.W.

ONDON, S.W.—Required, in large West-End establishment, Counter Assistant, male or female, of good appearance and address; outdoors; short hours; no Sunday duty. Write, stating full particulars and experience, to "L. J.," 2478, Sells' Advertising Offices. Fleet Street, E.C.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

L ONDON, S.W.—Junior Assistant wanted Dispensing business. Apply to "A. I. P.," 1 ster & C 13 Gledhow Terrace, South Kensington, S.W.

I ONDON, W.—Assistant required in Dispensing bu ess. Run apply, with full particulars, stating age, heig required (outdoors), to 211/27, Office of this Paper

LONDON, W.—Lady Dispenser required; hours to 6, 8st days 1 o'clock; no Sunday duty. Apply, by ter in instance, giving full particulars of qualifications, er rence, to Hospitals and General Contracts Co., Ltd., 195 Mortal Street, W.

ONDON, W.—Wanted, a Junior Assistant, w. pensing experience; outdoor. Apply, W. Pasm 320 Regent Street, opposite the Polytechnic.

MANCHESTER.—Messrs. Griffiths & Co., Chemis require a qualified Chemist to Manage Branch nust be date and have good references. Please send lest det with application.

MANCHESTER.—Assistant for middle-class Retai Dispense and Photographic business. Full particulars for the to-save time), Bushby, Pharmacist, Levenshulme, inchess.

MANCHESTER.—Elderly qualified Assistant reced, mo Manches for N.H.I. Dispensing; comfortable permanence easy has state when at liberty and salary required, 215/101, lice of Paper.

MIDDLESEX.—Pharmacist required to check an nalyse scriptions (N.H.L.); must be able to prepare advise on all points affecting the interests of Pharm its. Playing the particulars in first letter to Hugo Wolff, 18(hill) Lottenham, N.

PONTYPOOL, Mon.—Wanted, in March, an unque and ant; outdoors; single preferred; ineligible for my. Ap Godfrey C. Wood, Pharmacist.

SCARBOROUGH.—Assistant wanted; unqualified. ply, 0

SHEFFIELD.—Retail and Dispensing; N.H.I. ork; stocked. Please apply, Pharmacist, 76 Spital 1, Shafi

HREWSBURY.—Junior Assistant or an Improver ther in out-doors, for a good-class Dispensing business; Assistant er an Improver there is business; Assistant or an Improver there is the control of the cont

TO SAVE TROUBLE.

MANY correspondents answering advertisements in ment enclose remittances to cover the cost of for letters to advertisers who prefer to be address to of the Office. The Publisher desires to make it clear quite superfluous, and perhaps this reminder with bulate necessity of the frequent return by him of such;

ANSWEREIN TERMS OF THE ADVERTISE INT A

REMEMBER you are one of possibly hundreds app so that same position. Put your case before the advertise to that may be able to form a MENTAL PICTURE of some ableness.

BE BRIEF BUT CLEAR.—Millions of applications to the waste-paper basket UNCONSIDERED, reader cannot form this picture from the inade of materials set before him.

RETURNING PHOTOS, Et

Advertisers in this Section who receive traits and copies of testimonials from applicants that stamped addressed envelope for reply are resulted that the undue retention of these often means that the undue returned as promptly as possible after peru

NG URNE.—Wanted at once, lady with Hall qualificant, et hours. J. E. French, M.P.S., Sittingbourue.

FINSINGTON, S.W.—Reliable and experienced outor A stant required: must be a quick and accurate Disand od Counterman, an active worker, and accustomed to set lines. Apply, with usual particulars, to P. Bolton, and oreign Chemist, 5 Sussex Place, South Kensington,

ENGLAND.—Assistant required; experienced; permen with good salary. Timothy White Co., Ltd., s, F smouth.

vted, unqualified Senior; must have a thorough owle of modern Store trading, also Photography and dreug; this is an excellent permanent position for a roal spacity able to organise and take control if necessater w arranged. Please give full particulars in first and lose photo to Brown's Drug Co., High Ousegate,

8 est Riding).—63 58.—Qualified Manager required Broh in a working-class district; liberal agreement to a dling worker anxious to do well. 215/1, Office of

ODD experienced Assistant wanted at once. Apply, Statij" c/o S. Maw, Son & Sons, 7-12 Aldersgate Street,

TAN for good-class Retail and Dispensing; knowledge Phography essential; outdoors. S. Edwards, Pharmadalm;

3TAN3 for good-class Retail and Dispensing; outdoors; qualit; knowledge of Photography essential; state salary all piculars. A. Elliott Sewell, Chemist, Huntingdon.

ETF Assistant (ineligible) for first-class Dispensing; f. of; outdoors. Apply personally or by letter, giving tituals and enclosing photo, to "E. G. H.," 1 Sonth-treet, yde Park, W.

ER. N & CO., LTD., 80 Gloncester Road, S. Kensinga, S., require a qualified Assistant; ineligible for the Appl "A. J. B. C."

OVEI r young Junior required for good-class Retail and pensir business; knowledge of Photography essential. unds' 128/18), Office of this Paper.

OR A stant, lady or gentleman; qualified preferred; easy urs; tdoors. Apply, with full particulars, age, salary d, etc Haward, 15 High Street, Littlehampton.

As ant for Chemist's business; 30s. per week; permust be capable Dispenser. State age and when party, 5/102, Office of this Paper.

AGE for small Retail business, chiefly Prescribing (in Apply, stating particulars and salary required, to m ' 5/18), Office of this Paper.

Assistant or Senior for high-class residential distinct i North London; with Optical qualification preferred; 15. at \$t, but afterwards to live over premises; ineligible; alwe \$d\$ references. Apply, in first instance, to 214/19, of thi Paper.

SRS. MOTHY WHITE CO., LTD., Chemists, Pertsmouth, equire capable Pharmacist as Manager; easy hours; good ogress, salary, with excellent prospects.

T.TD; indoors; suitable for students; salary according time iven; principally evenings. Apply, 175 Uxbridge U.

ALIFI Assistant, not eligible for military service, wanted tonce of Manage City business; good salary and commissurs; Sundays and Bank Holidays free. Apply, referers, to 215/10, Office of this Paper.

ALIFI Manager wanted end of February; country busiass, 1ks; counfortable berth; knowledge of Optics prei; incl ble; salary £3 3s. per week. 214/30, Office of

0 qual d Dispensers required at once. Apply personally Star Superintendent, Harrods, Ltd., 44 Hans Crescent,

WANTED, lady with Minor or Apothecaries' Hall certificate, to assist another lady in country business; easy hours; comfortable berth; good opportunity for one desirous of obtaining experience. Apply, usual particulars, 208/31, Office of this Paper.

WANTED, Assistant for Dispensing business; outdoors. Apply, with usual particulars, Sells & Son, Tunbridge Wells.

WANTED. unqualified Assistant (outdoors) for small business; Prescribing and speciality, and little Dental; salary and commission: permanent and prospective; state salary; two good references indispensable. Hulmes, Chemist, Nottingham.

WANTED at once, smart unqualified Junior Assistant for the Whitley Bay district. Apply, Mr. England, Starbeck

WANTED, Assistant; ineligible for military service; qualified or unqualified. Please give full particulars and salary required to W. R. Williams, Chemist, Tylorstown, Glam.

Wanted, a good Junior Assistant; chiefly for Counter and used to a good-class business; wages 35s. per week and commission. Apply, The Prosser Roberts Co., Pharmaceutical Chemists, 15 Church Street, Camberwell, London, S.E.

WANTED, an Assistant for the Retail Counter; outdoors. Apply, giving full particulars, to D. P. Roberts, Chemist, 120 North End, Croydon.

WANTED, young lady, unqualified, for Chemist's shop in South Wales; outdoors; Dispensing and Counter. State salary required and full particulars to 214/5, Office of this Paper.

£130.—Pushing Salesman required in highest class business: Photographic side, and with some knowledge of the trade preferred, but not essential; splendid prospects; easy hours; must not be eligible for Army. Replies in confidence to 124/39, Office of this Paper.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

L ONDON, N.W.—Smart and experienced Pill hand wanted. Write full particulars of age, experience, and wage.required to 215/34, Office of this Paper.

COUNTER hand required for Chemicals. Apply, stating experience and wages required, to Hopkin & Williams, Ltd., Manufacturing Chemists, 16 Cross Street, Hatton Garden, E.C.

DRUGGISTS' Sundries.—Assistant required, with knowledge of Sundries and Instruments, for Wholesale City Warehouse. Dakin Bros., Ltd., 82 Middlesex Street, Bishopsgate, E.C.

EXPERIENCED Chemist for Scottish Wholesale Druggists' Apply, 120/50, Office of this Paper.

EXPORT Druggist's Office.—A man over military age required to assist buyer. Apply, by letter, to "L.," 14 Lafone Street, London, S.E.

GOOD Man required to superintend Despatch Department of Wholesale Manufacturing Chemist. Apply, giving full details and salary required, 216/17, Office of this Paper.

MANUFACTURERS of Toilet Requisites and Perfumery require two Representatives; one accustomed to London and district, the other West of England and Wales. Apply, with full particulars, 124/46, Office of this Paper.

SEIDLITZ Powders.—Experienced Hand Weighers and Wrappers wanted; piecework. Apply, by letter only, "W. C. H.," 46 Southwark Street, London, S.E.

UNDER-FOREWOMAN required; previous knowledge of Packed Drugs trade essential. Apply, by letter, stating experience, Allen & Hanburys, Ltd., Bethnal Green.

UNQUALIFIED Assistant; Wholesale experience necessary; ineligible. Apply, with full particulars, to Heppell's, 38 Chandos Street.

WANTED, one unqualified Assistant with good-class experience, not eligible for the Army; also one Drug Warehouseman for filling and despatching orders. Apply, stating particulars, to Wilson & Kitchin, Wholesale and Retail Chemists, Whitehaven.

WANTED, Assistant with thorough knowledge and experience in the Manufacture of Pills, Tablets, Sugar-coating, etc., to take charge of department; permanent and progressive position to suitable person. Apply, stating age and salary required "Wholesale Pharmacist" (127/42), Office of this Paper.

WANTED (at once), Wet-cellar hand, by Wholesale firm; state experience and wages; also Errand-boy, able to cycle. 215/38, Office of this Paper.

WET Counter.—Experienced man wanted; good wages and permanency. Apply, "C. S." (214/16), Office of this Paper.

WHOLESALE London Export house require a second Ware-houseman with good knowledge of Packing, Despatoh, and Bond work. Apply, stating age, previous experience, and salary required, to "Export" (128/29), Office of this Paper.

£120.—EXPERIENCED Clerk required for town desk in Wholesale Druggists'; must be capable and energetic. Fullest particulars to "C. A. E.," c/o Street's, 30 Cornhill, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

A CTIVE; unqualified; married; 24; 10 years' good all-round experience; permanency; disengaged. 214/36, Office of this Paper.

A DVERTISER desires Managership; 21 years experience; recently qualified; aged 38; married; London, outer suburbs, or Home Counties preferred. "W.," 257 High Street, Ponders End, N:

A S Manager; qualified; over military age; permanency. "Phenacetin" (215/32), Office of this Paper.

A SSISTANT or Manager; 35; quick and accurate Dispenser; good Counterman; 15 years' experience; good City and West-End references; fluent French and Italian. Address, "H. G. M." (213/2), Office of this Paper.

A SSISTANT, 44, active, reliable, experienced Dispenser and good Salesman, disengaged; unregistered. "Statim," Prestatyn, Anglesia Road, St. Mary Cray, Kent.

A SSISTANT (24), smart, well up in English and French Pharmacy, seeks place in good-class Pharmacy, London or South; excellent references. P. Carter, 41 Boulevard Strasbourg, Le Havre.

A SSISTANT; good Dispensing, Photographic, Counter, Windows; outdoors; London districts preferred. "Jothian" (213/24), Office of this Paper.

A SSISTANT (21), tall, desires situation; North-Eastern Counties; varied experience; incligible Army. 215/30, Office of this Paper.

A SSISTANT, unqualified, energetic, reliable, over military age, modern business man, experienced Dispenser, Prescriber, Counter, desires engagement early date; London, West or S.W. preferred. 216/14, Office of this Paper.

A SSISTANT or Manager; married; 41; tall; unqualified; good Counterman; first-class experience; outdoors; disengaged. "Rhei" (216/12), Office of this Paper.

BRIGHTON.—Situation required as Junior Assistant. "S.,"

CAPABLE experienced Pharmacist, over military age, desires
Managership or other responsible position in good-class
country of modern store business; systematic; energetic. Please
state class, hours, salary, Pharmacist, 38 Knowsley Road, St.
Helens.

DISENGAGED.—Appointment desired as Manage (que clderly gentleman; acquainted with all departed ness; active and reliable; good address; unden le Full details, terms, to "Eucalyptus," 49 Gonville ad Heath, S.E.

DISPENSER (lady, unqualified) requires sit on chester district. Edghill, Bramber, Hale, riad

HOSPITAL Dispenser (lady) has mornings an w free; West district. 214/12, Office of this Par.

ADY Assistant; 24; able to dispense; Part o ph Ilford or near. "G.," 205 Monega Road, M r Pa

LADY Dispenser (unqualified) requires post wi Cher in Hospital; London; good references. "H trice Avenue, Norbury, S.W.

LADY Dispenser, quick, accurate (Hall qualifion), post (Chemist or Doctor) in Gillingham, Chath, sr Miss Cook, 40 Corporation Road, Gillingham.

ADY Dispenser seeks post with Doctor or in a control ferably London. Miss Belcher, Bedford Hou York Portman Square, W.

LADY Dispenser wishes post with Doctor or spital certificate; previous experience, also Nursing cried Drynan, 63 Kensington Gardens Square, W.

OCUM or Temporary Assistant for few weeks; rms Chemist; first-class experience. Botham Sould Rogate, Petersfield.

LOCUM or temporary; qualified; experienced; engaged. "X.," 9 King's Cross Road, W.

LOCUM in country district; disengaged February); que age 50; excellent references; 35 years' fir lass ence; encrgetic; booking forward. Dowey, 3 I ma a margate.

MANAGER or Senior, unqualified, desires cha; 7 good-class management; age 37; married; blobbe energetic worker; all branches; N.H.I. Dispensi for references; permanency; good salary essential; highly army. "Radix," 140 Soho Hill, Birmingham.

MANAGER; qualified; 44; Midlands preferred; of misses; good reference. "Midland" (212/80) Here

MANAGER; qualified; ineligible; good-class a Store perience; live on premises. 212/8, Office of t Pap

MANAGER; at liberty; qualified (ineligible); or olled good-class business; able and tactful Salesman mpor permanent. "Dunn," 99 Sutherland Avenue, W.

MANAGER or Locum; qualified; age 59. Plea state particulars, Snoxell, 75 Woodbridge Road, G ford

MANAGER, qualified, West End or City, high-clas spable cnergetic, wishes to improve position; Retail (Disposal 214/35, Office of this Paper.

MANAGER; 37; married; Salesman; quick, accur. Dispension; references; wide experience; with or without volos sion; references. "Radix" (213/37), Office of this 1 ct.

MANAGER or Locum; qualified; elderly, active 32 Wright Street, C.-on-M., Manchester.

MANAGER or Locum; thoroughly experienced; inder provinces. "Qualified," 87 Trinity Road, Sou II, W

MANAGER wants situation; up-to-date trading; apen Buyer; used to controlling staff; Major qualific no. i "Chemist," 116 Spring Street, Bury, Lancashire.

MEDICAL Dispenser, Apothecaries' Hall qualificon, situation with Doctor or Chemist; in London i cross work accepted. Write, G. Twelves, 149 ak i

PART-TIME; lady Dispenser; experienced; 12 6; 1 keeping. 14 Kitchener Road, Forest Gate.

32; rejected for Army; West-End experience.

IE (25), tall, references, N.H.I. work preferred, uation; Liverpool or Cheshire district preferred. press Drive, Douglas, Isle of Man.

Manager; nbstainer; all-round experience; good age 27; good salary and commission on profit; o without; replies not answered in three days redeced. 212/6, Office of this Paper.

IE 35) desires change; present berth, Manager and for 8 years, Drug Department in large Store (North); all and experience; or would take over business on ms. Particulars to 214/14, Office of this Paper.

IEI 26; tall; single; first-class Dispensing and Drug-ex ience; Yorkshire preferred. Marshall, 38 North

[El] (33); Managership, view succession; good store country or healthy town; Scotland preferred; property; commence March 7. Gibson, Ashdon,

lEI (anagement or Seniör Assistant; good experience.

LE, ualified Manager; 33: excellent Pharmaceutical Phy-optical experience. "Success" (214/26), Office per.

NS' ispenser and Book-keeper; experienced. Alpha,

IP 0 Assistant, 22, incligible, desires change; Lan-ter Extred; high-class Dispensing and Counter; slight pply, stating salary, hours, etc., 208/35, Office per

OF USE OF THE D; used to modern Cash business; London; er, indow-dressing, Dispensing; reliable; active; 48; chize in absence of principal. "Chem." (212/33), this aper.

LIFD; London; whole or part; ineligible; Store: ogray; moderate salary. "G." (213/26), Office of

IST ED; Senior or Branch Manager: 40; good term, Prescriber, and Dispenser; Photography; ener-permanency. 215/8, Office of this Paper.

ants good Assistant or Branch Manager immediately?
Photography, Extracting, etc.; 29; gentleseaged; undeniable first-class references. Nicholls,
t, Newcastle-on-Tyne.

lady tudying for Hall requires Part-time borth (Dis-t. M." (215/40), Office of this Paper.

WHOLESALE.

ts, the circulars, samples, and printed matter can in forveded, the Box numbers being intended exclusively of an ors to particular advertisements. The Publisher to open and refuse to forward any communicatived the may consider contrary to this rule.

tall, ineligible, married, active, reliable years' Retail experience, seeks position in ext ent references. "Camphor" (216/10), Office

OUS cotsmnn, 40, qualified, married, seeks respon-e ption; experienced Wholesale and Travelling.

Chemist requires a change; willing to work to Molesale house; over three years with a lyst; oung, but ineligible for military service; exceluonia 213/5, Office of this Paper.

IENC) Assistant in Retail wishes to hear of good the i Wholesale with prospects; over military age. fice o his Paper.

LADY, many years' experience of packing Chemists' Counter specialities, is open to accept appointment in London; accustomed to control staff of girls. 214/15, Office of this Paper.

RUSSIAN Pharmacist; 23; tall; wide experience, Continental and English, Dispensing, Laboratory work; full or part time. Shiffrin, 16 Grosvenor Road, Canonbury, N.

SWISS Engineer-Chemist (Doctor of Science), with long experience in the industrial Manufacture of fine Chemical Products (Pharmaceutical Products and Synthetic Perfumes), seeks post as Chief Chemist in works already existing or about to be formed, or as Consulting Chemist. Reply to 190/8, Office of this Paper.

TRAVELLER, qualified Chemist, requires re-engagement; experienced, energetic, successful; excellent selling record, and connection with chemists, stores, institutions, and general; intimate knowledge drug, sundries, essence, disinfectant, etc., trades; first-class references; incligible Army; disengaged. 213/38, Office of this Paper.

WIFE of attested Traveller desires to represent good house; sundries or perfumery; London preferred; highest references. "R. L." (214/11), Office of this Paper.

MISCELLANEOUS.

PILL-COATING Machine Wanted.—A new or second-hand Colton-Gelatin Pill-coating Machine is required at once; must be in good condition. Send full particulars and purchase price complete to 122/41, Office of this Paper.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

HOPFITTINGS (SECOND-HAND).—12-ft. Mahogany and Plate-glass. Serving Counter, £9 10s.; Mahogany and Plate-glass Perfumery Showoase and Desk, Mirror back and Plate-glass shelves, 58s.; 8-ft. Mahogany and Bent Plate-glass Counter-case, with Display and Serving Shelves, £6 17s. 6d.; 10-ft. handsome Piano Wall Showcase, great bargain, £21; quantities of other chap lines. PHILIP JOSEPHS & SONS, LTD., 93 old Street, Lendon, E.C.

CHEMISTS' Fittings.—Silent Salesman, Glass Showcases of every description, Drugfittings, Dispensing-screens, Wall-cases, Glass-tront Counters, Perfume-cases, Desks, Counter Drawers, Shelves, Mirrors, shop-soiled, second-hand, nt lowest prices; don't decide all you get my estimate; you can't get better value; 30 years atting Pharmacies. GEORGE COOK, The Chemists' Working Shopfitter, Catherine Street, City Road, London, E.C.

CHEMIST'S good second-hand 12-ft. Mahogany Drug Fitting, 6-ft. Mahogany Dispensing Screen and Counter, 4-ft. Mahogany Wall-case; 10-ft. Glass-fronted Counter; Nest of Counter Drawers; Perfumery Case and Desk; 4-ft. Bent Glass Counter Case; the lot £45; bargain; cheapest house for Window Enclosures, Mirrors, Glass Shelves, modern Shop Fronts, Improvements, etc.; plans prepared; estimates free. Mills, Shopfront, Shopfitting, and Glass Facia Works, 163-165 Old Street, London, E.C. 'Phone London Wall 550

MCQUEEN'S A.B.C. System of Accounts; works out profit and loss account, balance sheet, with guaranteed certainty; gives exactly what Surveyors of Tares want, and is a remedy for over-assessment; practically automatic Bookkeeping; 12th edition. Particulars and testimonials tree. McQueen & Co., Moat Road East, Leicester.

BEST cash price paid for all old Cameras, nny make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

8/6 Years

Jay Mack's Ledger

A Yorkshire Chemist watched me last week make my week's entries in 5 minutes. He has two shops, and bought a 10/6 set.

Years

10/6

On appro. on receipt of cheque. Booking fee if returned.

MACK-IVOR, hightown P.O., Crewe. AYRTONS, BLEASDALES, EVANS, RAIMES (Edinb.).

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of sharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the entiomary business channels.

TERMS

Minimum charge (including registration fee) of 1/for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST, AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE.

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Chloralamid (214/21) Cocaine hydrochlor., 1 oz. (214/21)

Genuine Farina eau Cologne, any size (214/21) Hydroquinone (213/7) Ferrum redact, 80%, 28 or Metol (213/7)

56 lb. (213/7)

FOR DISPOSAL.

Bons-fide buyers of the following articles are requested to com nunicate their exact requirements promptly to us, and we shall place them in touch with sellers:

Acetanilid. (212/30) acetylsal., 2 lb.

(212/30)Acid. benzoic., 4 oz. (202/10)

Amidol (Agfa) (202/10) Aspirin (Bayer),

(212/30)Butyl-chloral hydrate, 6 oz.

(202/10)

Chlorophyll, 1 14-lb. tin (213/40)

Creosotal (Heyden), 8 oz. (202/10)

Eikonogen (Agfa), 10 grams (202/10)

cwt. (215/9)

Phenacetin (213/17), 60 lb. (original packages) (210/I2)

Phenacetin co., 1,000 gr. v. (212/30)

Phenazone (213/17) Pot. permang. (213/17)

Quin. sulph. (Howards'), 100-oz. tin (213/6)

Salol, 7 lb. (212/30) Sodii salicylas phys. 7 1-lb. packets (213/6)

Theocin sod. acet., 6 drams (202/10)

Thiocol, 1 oz. (202/10)

Gum acacia sorts, about 3 Thymol, 4 oz. (202/10)

Sale of Morphine Lamels.

At the instance of the Pharmaceutical Society, Savory & Moore, Ltd., New Bond Street, London, W., were summoned on February 10 at Marlborough Street Police Court for selling morphine and cocaine lamels without taking the precautions required by the Pharmacy Acts. Mr. Glyn-Jones, for the prosecution, gave particulars of an advertisement in "The Times," and stated that an agent of the Society, Mr. Branch, replied to the advertisement and was sent a card from which to make a selection. He selected a dozen of the little packets, and of that dozen one contained morphine and another cocaine. These were in envelopes marked with the word "Poison." There were directions for use and a caution as to the amount of the dose. In these respects counsel said there was no complaint; but Mr. Branch was quite unknown to the defendants, and the law required that poisons should not be sold except to a person known to the vendor or introduced to him by somebody who was known. An entry was also required to be made in a book kept for the purpose of the fact of the sale, the name and address of the purchaser, the name of the poison, the quantity sold, and the purpose for which it was alleged to be required. Mr. Kirby, for the defence, pleaded guilty, but spoke of the very high reputation of his clients. During the 120 years the firm had been in existence this was the only case of the kind that had ever been alleged against them, and this was due to the inadvertence of an assistant acting contrary to the instructions of the principals. A fine of one guinea, with three guineas costs, was imposed.

EXCHANGE COU

One halfpenny per word with name and addreword if we register the address and attach an No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and price mat so case be forwarded, the Box numbers being i aded for specific answers to particular advertisemen The reserves the right to open and refuse to forwar any coins received which he may consider contrary this

FOR DISPOSIL

DRUGS AND CHEMILLS

FOUR 35-lb. tins globulus cucalyptus oil; wha ffers? Chemist, Grantham.

WHAT offers? 5 lb. bism. carb., 4 oz. cocain. drock acid. acetylsalicyl. Waugh, Chemist, New ggate
16 lb. p. pot. bicarb., 1s. 11d. lb.; 24 lb. lum brown potash, 1s. 3d. lb.; 56 lb. copper-sulphate ystal Myers, Pensnett, near Dudley.

Myers, Pensnett, near Dudley.

TWO 100's B.W. sulphonal tabloids, 12 25's To-Kalon preparations, 5 3s, 11d. santonex 2 1t 3 2s. 11d. floxoin lotion, 2 5s. 6d. Jaces 2 2s. 6d. beauty paste, 6 3s. levathol cone cau de levathol; offers for any or all. Griffit Shept 2 lb. pot. permang., 12s.; ½ lb. casine, 15s. 8s.; 5 oz. hyd. iod. rub., 6s.; 2½ oz. hyd. cret. 3 25 gr. 5 aspirin tab., 6s.; 1 100 gr aspression for a 1t 100 gr a all B.W.'s; labels soiled. Street, London, S.E.

MISCELLANEOUS

WHAT offer for 10 gross 6d. floor-polish ti Manson, Peter's Hill, Belfast. 1 gross hand warmers (Japanese), 88. 6d.

460 Holloway Road, London, N.

4 1-oz. Schering's urotropine, 1s. 9d. oz.; 1 exal

1 gross transparent teats for boat-shape fe rs, 2 Chemist, 10 Albert Road, Hford.

CLEAN medicine bottles, no chips, 4 oz. 98. 6d oz. 8 oz. 118., 10 oz. 128., 12 oz. 128., 16 oz 68. carriage paid £2 orders. 213/31, Office of Physics

ABOUT 100 gross round tin boxes, bodies 2 with lid 2 in. by 11/16 in.; lid only decor d, wi casily be covered by label; low price n pted Maurice Smith, Kidderminster.

WANTED.

WANTED, 5 oz. strychnine hydrochlor. Roberts Them

SPTICAL books; Minor, Major, Chemists' books; ad p valuation; cash offers per return. Gower, Be seller taire Road, Clapham, S.W.

SURPLUS stock chemicals, drugs (original ut aned only), packed goods, soaps, perfumes, sund: L prices, to Delmas & Co., Burlington House, inch Nuneaton

Wootton's "Chronicles of Phana

By arrangement with Messrs. Macmillan we are able to offer this work (published laguinea net) to "C. & D." Subscribers at 75 paid in the United Kingdom, and 8s. 6d. A dwork is by the late A. C. Wootton (for Editor of "The Chemist & Druggist"), volumes, bound in maroon cloth. The chapters deal with every phase of the history and galenical pharmacy from the earliest include biographies and portraits of many in medicine and pharmacy. The "Chro about the origin of the more popular me trace their development to official status. Me take the development to official status. Me take the development to official status. The "Chro about the origin of the more popular me trace their development to official status. Me take the development to official status. The secure a copy by ordering from "THE CHEMIST & DRUGGIST." 42 CANHON STREEL [DON]

"THE CHEMIST & DRUGGIST," 42 CANNON STREET, IOON

COD LIVER OIL

1916.

Inquire for Prices.

ATER LASS

EV LIST st sued

OLIVE OIL

NEW ARRIVED.

Samples and Prices on application.

TRADE



MARK

EVANS SONS LESCHER & WEBB

LIMITED

LIVERPOOL and **LONDON**

Also NEW YORK, U.S.A.

THE BRITISH DRUG HOUSE

URO-HEXOIDS



TABLETS OF UROHEXENE, A COMBINATION
OF HEXAMINE AND LITHIUM BENZOATE.
A SUCCESSFUL URINARY ANTISEPTIC,
DIURETIC AND ANTI-LITHIC.
RETAIL 1/9 (50 Tablets) P.A.T.A. ... 10/6 per Dozen.





CARBONIC ACID BATHS



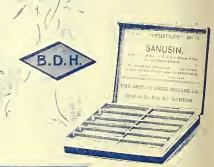
CHARGES FOR THE PRODUCTION AT HOME OF EFFERVESCENT BATHS, AS USED IN THE NAUHEIM TREATMENT.

RETAIL (P.A.T.A.) 1/6 per Box ... 13/- per Dozen,

SANUSIN SEMPULES

SANUSIN 'SEMPULES' ARE ALMOST SPECIFIC IN CASES OF HÆMORRHOIDS.

RETAIL 2.6 (P.A.T.A.) ... 21,- per Dozen.





THE ABOVE LINES EFFECTUALLY REPLACE GERMAN PRODUCTS SAMPLES OR LITERATURE (FOR DISTRIBUTION TO MEDICAL MEN AND OTHERS) MAY BE HAD ON REQUEST.

22-30, Graham Street, City Road London,